

# MEMORIAL HERMANN THE WOODLANDS MEDICAL CENTER

2019 Community Health Needs Assessment



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# **Executive Summary**

# Introduction & Purpose

Memorial Hermann The Woodlands Medical Center (MH The Woodlands) is pleased to present its 2019 Community Health Needs Assessment (CHNA). This CHNA report provides an overview of the process and methods used to identify and prioritize significant health needs across Memorial Hermann Health System's regional service area (including MH The Woodlands), as federally required by the Affordable Care Act. Memorial Hermann Health System partnered with Conduent Healthy Communities Institute (HCI) to conduct the CHNA for 13 facilities:

- Memorial Hermann Katy Hospital
- Memorial Hermann Memorial City Medical Center
- Memorial Hermann Greater Heights Hospital
- Memorial Hermann Northeast Hospital
- Memorial Hermann Southeast Hospital
- Memorial Hermann Sugar Land Hospital
- Memorial Hermann Southwest Hospital
- Memorial Hermann The Woodlands Medical Center
- Memorial Hermann Rehabilitation Hospital Katy
- Memorial Hermann Texas Medical Center
- TIRR Memorial Hermann
- Memorial Hermann Surgical Hospital Kingwood
- Memorial Hermann Surgical Hospital First Colony

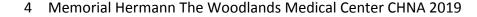
The purpose of this CHNA is to offer a comprehensive understanding of the health needs in MH The Woodlands' service area and guide the hospital's planning efforts to address those needs. Special attention has been given to the needs of vulnerable populations, unmet health needs or gaps in services, and input from the community. To standardize efforts across the Memorial Hermann Health System and increase the potential for impacting top health needs in the greater Houston region, community health needs were assessed and prioritized at a regional/system level.

Findings from this report will be used to identify and develop efforts to improve the health and quality of life of residents in the community.

# Summary of Findings

The CHNA findings in this report result from the analysis of an extensive set of secondary data (over 100 indicators from national and state data sources) and primary data collected from community leaders, non-health professionals, and organizations serving the community at large, vulnerable populations, and/or populations with unmet health needs.

Through an examination of the primary and secondary data, the following top health needs were identified:





# Memorial Hermann Health System's Significant Health Needs

- Access to Health Services
- Cancers
- Children's Health
- Diabetes
- Economy

- Education
- Food Insecurity
- Heart Disease/Stroke
- Lack of Health Insurance
- Low-Income/Underserved
- Mental Health
- Obesity
- Older Adults/Aging
- Substance Abuse
- Transportation

#### **Prioritized Areas**

In March 2019, stakeholders from the 13 hospital facilities in the Memorial Hermann Health System completed a survey to prioritize the significant health issues, based on criteria including health impact and risk as well as consideration of Memorial Hermann's strategic focus. The following four topics were identified as priorities to address:

# **Memorial Hermann Health System's CHNA Priorities**

- Access to Healthcare
- **Emotional Well-Being**
- Food as Health
- Exercise Is Medicine

MH The Woodlands will develop strategies to address these priorities in its 2019 Implementation Strategy.



# Introduction

#### Memorial Hermann The Woodlands Medical Center

Since 1985, Memorial Hermann The Woodlands Medical Center has been continually recognized for delivering a higher level of care. It is a trauma center and is still the first and only hospital in Montgomery County to be granted Magnet status for nursing excellence by the American Nurses Credentialing Center. Memorial Hermann The Woodlands is a 351-private bed, full-service, comprehensive, acute care facility that brings together the ultimate in healthcare technology, expertise and healing for families in south Montgomery County, north Harris County and surrounding communities.

#### Vision

Memorial Hermann will be the preeminent health system in the U.S. by advancing the health of those we serve through trusted partnerships with physicians, employees and others to deliver the best possible health solutions while relentlessly pursuing quality and value.

#### Mission Statement

Memorial Hermann is a not-for-profit, community-owned, health care system with spiritual values, dedicated to providing high quality health services in order to improve the health of the people in Southeast Texas.

#### Memorial Hermann Health System

One of the largest not-for-profit health systems in the nation, Memorial Hermann Health System is an integrated system with an exceptional affiliated medical staff and more than 26,000 employees. Governed by a Board of community members, the System services Southeast Texas and the Greater Houston community with more than 300 care delivery sites including 19 hospitals; the country's busiest Level 1 trauma center; an academic medical center affiliated with McGovern Medical School at UTHealth; one of the nation's top rehabilitation and research hospitals; and numerous specialty programs and services.

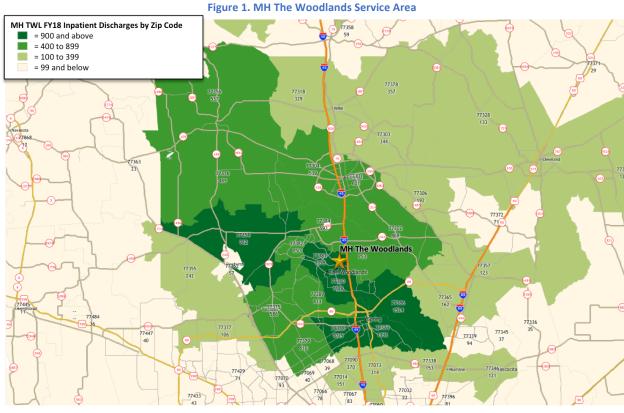
Memorial Hermann has been a trusted healthcare resource for more than 110 years and as Greater Houston's only full-service, clinically integrated health system, we continue to identify and meet our region's healthcare needs. Among our diverse portfolio is Life Flight, the largest and busiest air ambulance service in the United States; the Memorial Hermann Physician Network, MHMD, one of the largest, most advanced, and clinically integrated physician organizations in the country; and, the Memorial Hermann Accountable Care Organization, operating a care delivery model that generates better outcomes at lower costs to consumers, while providing residents of the Greater Houston area broad access to health insurance through the Memorial Hermann Health Insurance Company. Specialties span burn treatment, cancer, children's health, diabetes and endocrinology, digestive health, ear, nose and throat, heart and vascular, lymphedema, neurosurgery, neurology, stroke, nutrition, ophthalmology, orthopedics, physical and occupational therapy, rehabilitation, robotic surgery, sleep studies, transplant, weight loss, women's health, maternity and wound care. Supporting the System in its impact on overall population health is the Community Benefit Corporation. At a market share of 26.1% in the 'expanded' greater Houston area of 12 counties, our vision is that Memorial Hermann will



be a preeminent integrated health system in the U.S. by advancing the health of those we serve.

# Memorial Hermann The Woodlands Service Area

The service area for MH The Woodlands includes Harris and Montgomery counties in Texas. The geographic boundaries of the service area are shown in Figure 1. The zip codes within MH The Woodlands' primary service area are listed in Table 1 and represent approximately 75% of inpatient discharges (21.7% in Harris County and 53.7% in Montgomery County).



| Table 1. Proportion of Patient Population Served by Zip Code |            |                    |
|--|------------|--------------------|
| ZIP Code   | County     | Percent of Patient |
|  |            | Population         |
| 77386  | Montgomery | 7.4%               |
| 77381  | Montgomery | 6.8%               |
| 77373  | Harris     | 5.5%               |
| 77380  | Montgomery | 5.5%               |
| 77388  | Harris     | 5.0%               |
| 77354  | Montgomery | 4.8%               |
| 77389  | Harris     | 3.9%               |
| 77385  | Montgomery | 3.7%               |
| 77382  | Montgomery | 3.6%               |
| 77379  | Harris     | 3.0%               |
| 77301  | Montgomery | 2.9%               |

| ZIP Code | County     | Percent of Patient Population |
|----------|------------|-------------------------------|
| 77384    | Montgomery | 2.9%                          |
| 77375    | Harris     | 2.8%                          |
| 77304    | Montgomery | 2.6%                          |
| 77356    | Montgomery | 2.6%                          |
| 77316    | Montgomery | 2.4%                          |
| 77302    | Montgomery | 2.3%                          |
| 77303    | Montgomery | 1.7%                          |
| 77378    | Montgomery | 1.7%                          |
| 77318    | Montgomery | 1.6%                          |
| 77073    | Harris     | 1.5%                          |
| 77355    | Montgomery | 1.2%                          |

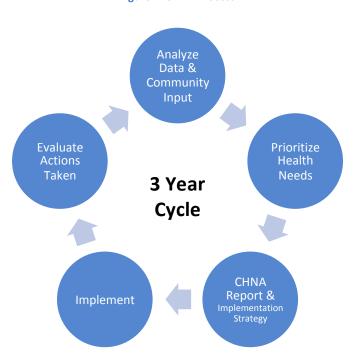
## Consultants

Memorial Hermann Health System commissioned Conduent Healthy Communities Institute (HCI) to conduct its 2019 Community Health Needs Assessment. HCI works with clients across the nation to drive community health outcomes by assessing needs, developing focused strategies, identifying appropriate intervention programs, establishing monitoring systems, and implementing performance evaluation processes. To learn more about Conduent Healthy Communities Institute, please visit https://www.conduent.com/community-population-health.



# Evaluation of Progress Since Prior CHNA

The CHNA process should be viewed as a three-year cycle. An important part of that cycle is revisiting the progress made on priority topics from previous CHNAs. By reviewing the actions taken to address priority areas and evaluating the impact of these actions in the community, an organization can better focus and target its efforts during the next CHNA cycle.



**Figure 2. CHNA Process** 

## Priority Health Needs and Impact from Prior CHNA

MH The Woodlands' last CHNA was conducted in 2016. The priority areas in FY16-18 were:

- Healthy Living: Encourage and foster healthy lifestyles through education, awareness and early detection to prevent illness.
- Healthcare Access: Improve community knowledge about healthcare access points and reduce perceived barriers to care.
- Behavioral Health: Ensure that all community members who are experiencing a mental health crisis have access to appropriate psychiatric specialists at the time of their crisis, are redirected away from the ER, are linked to a permanent, community based mental health provider, and have the necessary knowledge to navigate the system, regardless of their ability to pay.

Each of the above health topics correlates well with the priorities identified for the current CHNA (detailed below); thus MH The Woodlands will be building upon efforts of previous years.



A detailed table describing the strategies/action steps and indicators of success for each of the preceding priority health topics can be found in Appendix A. MH The Woodlands' preceding CHNA was made available to the public via the website and community feedback directed to Memorial Hermann's Community Benefit Department:

http://www.memorialhermann.org/locations/the-woodlands/community-health-needs-assessment-the-woodlands/. No comments or feedback were received on the preceding CHNA at the time this report was written.



# Methodology

#### Overview

Two types of data were used in this assessment: primary and secondary data. Primary data are data that have been collected for the purposes of this community assessment. Primary data were obtained through a community survey and key informant interviews. Secondary data are health indicator data that have already been collected by public sources such as government health departments. Each type of data was analyzed using a unique methodology. Findings were organized by health topics and then synthesized for a comprehensive overview of the health needs in MH The Woodlands' service area.

# Secondary Data Sources & Analysis

Secondary data used for this assessment were collected and analyzed from HCI's community indicator database. This database, maintained by researchers and analysts at HCI, includes over 100 community indicators from at least 15 state and national data sources. HCI carefully evaluates sources based on the following three criteria: the source has a validated methodology for data collection and analysis; the source has scheduled, regular publication of findings; and the source has data values for small geographic areas or populations.

## Secondary Data Scoring

HCl's Data Scoring Tool® was used to systematically summarize multiple comparisons in order to rank indicators based on highest need. For each indicator, the community value was compared to a distribution of Texas and US counties, state and national values, Healthy People 2020, and significant trends were noted. These comparison scores range from 0-3, where 0 indicates the best outcome and 3 the worst. Availability of each type of comparison varies by indicator and is dependent upon the data source, comparability with data collected for other communities, and changes in methodology over time. The comparison scores were summarized for each indicator, and indicators were then grouped into topic areas for a systematic ranking of community health needs. Please see Appendix B for further details on the quantitative data scoring methodology as well as secondary data scoring results.

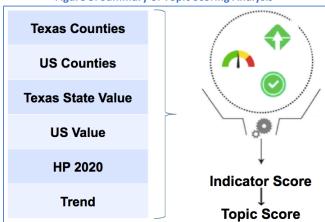


Figure 3. Summary of Topic Scoring Analysis



#### **Disparities Analysis**

When a given indicator has data available for subgroups like race/ethnicity, age or gender – and values for these subgroups include confidence intervals – significant differences between the subgroups' value and the overall value can be determined. A significant difference is defined as two values with non-overlapping confidence intervals. Only significant differences in which the value for a subgroup is worse than the overall value are identified. Confidence intervals are not available for all indicators. In these cases, there are not enough data to determine if two values are significantly different from each other.

# Primary Data Methods & Analysis

Community input for Memorial Hermann Health System was collected to expand upon the information gathered from the secondary data. Primary data used in this assessment consisted of a community survey in English and Spanish as well as key informant interviews. See Appendix C for the survey and interview questions.

#### Community Survey

Input from community residents was collected through an online survey. This survey consisted of 11 questions related to top health needs in the community, individuals' perception of their overall health, and weekly exercise habits. The community survey was distributed online through SurveyMonkey® from October 23<sup>rd</sup> through November 27<sup>th</sup> of 2018. The survey was made available in both English and Spanish. Paper surveys were also made available and answers to the paper survey were entered into the SurveyMonkey tool. A total of 285 responses were collected. Results in this report are based on the service area for Memorial Hermann Health System. This was a convenience sample, which means results may be vulnerable to selection bias and make the findings less generalizable to the population as a whole.

**Table 2. Community Survey Outreach** 

| Community Event      | Description  |
|----------------------|--|
| Step Health Event –  | Community event hosted by Memorial Hermann providing park activation,                |
| Moody Park, 77009    | walking tours, Zumba instruction, and (through a partnership with Houston Food       |
|                      | Bank) food distribution to low-income, at-risk, and mostly uninsured residents.      |
| Step Health Event –  | Community event hosted by Memorial Hermann providing park activation,                |
| Castillo Park, 77009 | walking tours, Zumba instruction, and (through a partnership with Houston Food       |
|                      | Bank) food distribution to low-income, at-risk, and mostly uninsured residents.      |
| Memorial Hermann     | 10 school-based health clinics in 5 school districts (74 schools) in Harris and Fort |
| Health Centers for   | Bend Counties, providing medical, mental health, and dental care, along with         |
| Schools              | nutrition, navigation, and summer boot camp programs to uninsured and                |
|                      | underinsured children throughout the Greater Houston area.                           |
| West Orem YMCA,      | A community-centered organization that brings people together to bridge the          |
| 77085                | gaps in community needs (underserved residents), nurtures residents' potential       |
|                      | to learn, grow, and thrive, and mobilizes the local community to effect lasting,     |
|                      | meaningful change.   |
| Spring Branch        | A Federally Qualified Health Center (FQHC) providing quality, affordable             |
| Community            | healthcare services to the underserved and uninsured communities of Spring           |



| HealthCenter,<br>77080                       | Branch and West Houston.   |
|--|--|
| Wesley Community<br>Center, 77009            | A multi-purpose social service agency providing residents of Houston: short-term rent, utility, and food assistance to prevent homelessness and maintain family financial stability; a career and personal financial service center; and Early Head Start, a child development program serving infants to toddlers to promote school readiness.  |
| Complete<br>Communities,<br>Houston          | Program initiated by the Mayor of Houston in five communities - all historically under-resourced, each with a base level of community involvement and support, and with diverse populations. The program is designed to enhance access to quality affordable homes, jobs, well-maintained parks and greenspace, improved streets and sidewalks, grocery stores and other retail, good schools and transit options. Communities: Acres Homes [77018, 77088, 77091], Gulfton [77056, 77057, 77081], Near Northside [77009, 77022, 77026], Second Ward [77003,  |
| Healthy Living<br>Matters                    | 77011, 77020], and Third Ward [77003, 77004, 77204].  A Houston/Harris County Childhood Obesity Collaborative - A collaborative of multi-sector leaders that promote policy aimed at system-level and environmental change to reduce the incidence of childhood obesity. Priority communities were selected due to the lack of access to healthy food options and opportunities to engage in physical activity as well as for their community assets and readiness for change. Priority Communities: City of Pasadena [77058, 77059, 77502, 77503, 77504, 77505, 77506, 77507, 77536, 77571, 77586], Near Northside [77009, 77022, 77026], and Fifth Ward/Kashmere Gardens [77020, 77026, and 77028] |
| Greater Northside<br>Health<br>Collaborative | Non-profit collaborative whose goal is to expand active living resources and increase access to quality healthcare and healthy food by promoting resident leadership and civic participation.  |

The race/ethnicity make-up of survey respondents is shown in Figure 4. The largest proportion of respondents identified as Hispanic/Latino (47.2%), 22.4% as White, 20.8% as Black/African American, and the remaining 9.6% of respondents as Asian/Pacific Islander, Other and Native American.



3.60% 1.20%

Hispanic

White

African American

Asian/Pacific Islander

Other

Native American

Figure 4. Survey Respondents by Race/Ethnicity

Survey respondents were asked to select top issues most affecting the community's quality of life. As shown in Figure 5, the majority of respondents identified Diabetes, Obesity/Overweight, Substance Abuse, and Mental Health & Mental Disorders as top issues in the community.

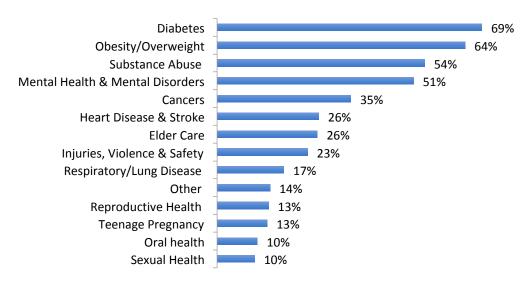


Figure 5. Top Issues Affecting Quality of Life (Survey)

#### **Key Informant Interviews**

Community input was also collected through key informant interviews.

Memorial Hermann Health System joined with the Episcopal Health Foundation (EHF) in their key informant interview initiative supporting four Greater Houston area hospital systems in preparing their community health needs assessments. The collaborating hospitals of this initiative include Memorial Hermann, CHI St. Luke's Health, Houston Methodist, and Texas Children's (Table 3). Through this partnership, a total of 53 interviews were conducted with



stakeholders from a range of sectors such as government, healthcare, business, and community service organizations. Community leaders with specific experience working with priority populations, such as women, children, people of color, the disabled, and more, were also interviewed.

#### **Table 3. Memorial Hermann Collaborative Partners**

Episcopal Health Foundation's mission is to advance the Kingdom of God with specific focus on human health and well-being through grants, research, and initiatives in support of the work of the Diocese, spanning 57 counties. Through informed action, collaboration, empowerment, stewardship, transparency, and accountability the foundation strives for the transformation of human lives and organizations with compassion for the poor and powerless.

CHI St. Luke's Health, a part of Catholic Health Initiatives (CHI), one of the nation's largest health systems, is dedicated to a mission of enhancing community health through high-quality, cost-effective care. Through partnerships with physicians and community partners, CHI St. Luke's Health serves Greater Houston with its commitment to excellence and compassion in caring for the whole person while creating healthier communities.

Houston Methodist is a nonprofit health care organization serving Greater Houston, dedicated to excellence in research, education, and patient care. Houston Methodist brings compassion and spirituality to all its endeavors to help meet the health needs of the community through the system's I CARE values: integrity, compassion, accountability, respect, and excellence.

Texas Children's Hospital is a not-for-profit organization whose mission is to create a healthier future for children and women throughout Greater Houston and the global community by leading in patient care, education, and research. Texas Children's is committed to creating a healthy community for children by providing the best pediatric care possible, through groundbreaking research and emphasis on education, while also offering a full continuum of family-centered care for women, from obstetrics to well-woman care.

In total, 64 key informant interviews were conducted by phone from August through November 2018; 53 key informant interviews were conducted through the collaborative and 11 interviews were conducted by HCI.

Interviewees who were asked to participate were recognized as having expertise in public health, special knowledge of community health needs and/or represented the broad interest of the community served by the hospital, and/or could speak to the needs of medically underserved or vulnerable populations. Efforts were made to identify interviewees working in and/or knowledgeable about the counties in Memorial Hermann Health System's service area. As seen in Table 4, some interviewees were identified with knowledge of multiple counties.

**Table 4. Key Informants by County** 

| County   | Key Informants                |
|----------|-------------------------------|
| Austin   | Included in Multiple Counties |
| Brazoria | 3                             |
| Chambers | 2                             |



| County             | Key Informants                |
|--------------------|-------------------------------|
| Fort Bend          | 10                            |
| Galveston          | 7                             |
| Harris             | 28                            |
| Liberty            | 1                             |
| Montgomery         | 4                             |
| San Jacinto        | Included in Multiple Counties |
| Walker             | Included in Multiple Counties |
| Waller             | 2                             |
| Wharton            | 2                             |
| Multiple Counties* | 5                             |
| Total              | 64                            |

<sup>\*</sup>Five (5) of the Key Informant Interviews represented 2 or more counties, including: Austin, Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, San Jacinto, Walker, Waller, and Wharton counties.

Interviews were transcribed and analyzed using the qualitative analytic tool, Dedoose<sup>1</sup>. Interview excerpts were coded by relevant topic areas and key health themes. Three approaches were used to assess the relative importance of the needs discussed in these interviews. These approaches included: the frequency by which a health topic was discussed across all interviews; the frequency by which a topic was described by the key informant as a barrier/challenge; and the frequency by which a topic was mentioned per interviewee.

#### **Data Considerations**

Several limitations of data should be considered when reviewing the findings presented in this report. Although the topics by which data are organized cover a wide range of health and health-related areas, data availability varies by health topic. Some topics contain a robust set of secondary data indicators, while others may have a limited number of indicators or limited subpopulations covered by those specific indicators.

Data scores represent the relative community health need according to the secondary data for each topic and should not be considered to be a comprehensive result on their own. In addition, these scores reflect the secondary data results for the population as a whole, and do not represent the health or socioeconomic need that is much greater for some subpopulations. Moreover, many of the secondary data indicators included in the findings are collected by survey, and though specific methods are used to best represent the population at large, these measures are subject to instability, especially for smaller populations. The Index of Disparity is also limited by data availability, where indicator data varies based on the population groups and service areas being analyzed.

<sup>&</sup>lt;sup>1</sup> Dedoose Version 8.0.35, web application for managing, analyzing, and presenting qualitative and mixed method research data (2018). Los Angeles, CA: SocioCultural Research Consultants, LLC <a href="https://www.dedoose.com">www.dedoose.com</a>



#### Race/Ethnic Groupings

The secondary data presented in this report derive from multiple sources, which may present race and ethnicity data using dissimilar nomenclature. For consistency with data sources throughout the report, subpopulation data may use different terms to describe the same or similar groups of community members.

## Zip Codes and Zip Code Tabulation Areas

This report presents both ZIP Code and ZIP Code Tabulation Area (ZCTA) data. ZIP or Zone Improvement Plan Codes were created by the U.S. Postal Service to improve mail delivery service. They are based on postal routes, which factor in delivery-area, mail volume and geographic location. They are not designed to be used for statistical reporting and may change frequently. Some ZIP Codes may only include P.O. boxes or cover large unpopulated areas. ZCTAs or ZIP Code Tabulation Areas were created by the U.S. Census Bureau and are generalized representations of ZIP Codes that have been assigned to census blocks. Therefore, ZCTAs are representative of geographic locations of populated areas. In most cases, the ZCTA will be the same as its ZIP Code. ZCTAs will not necessarily exist for ZIP Code areas with only businesses, single or multiple addresses, or for large unpopulated areas. Since ZCTAs are based on the most recent Census data, they are more stable than ZIP Codes and do not change as frequently.

Demographics for this report are sourced from the United States Census Bureau, which presents ZCTA estimates. Tables and figures in the Demographics section of this report reference ZIP Codes in title (for purposes of familiarity) but show values of ZCTAs. Data from other sources is representative by ZIP Codes and are labeled as such.

#### Prioritization

In order to focus efforts on a smaller number of the most significant community issues, sixteen representatives from the Memorial Hermann Health System (one or more representing each facility) participated in an online prioritization process to prioritize the fifteen significant health needs identified through the secondary and primary data analyses. The prioritized health needs will be under consideration for the development of an implementation plan that will address some of the community's most pressing health issues.

#### **Prioritization Process**

To prioritize significant health needs, Memorial Hermann stakeholders participated in an online webinar on March 7, 2019 to review data synthesis results followed by completion of a prioritization matrix listing significant health needs and four criteria by which to rate each need. Participants scored each need for each of the criteria on a scale from 1-5, with 1 meaning the respondent strongly disagrees to 5 meaning the respondent strongly agrees that the health need meets the criterion. Respondents were also able to select "Don't Know/Unsure" for each health need.

The criteria for prioritization included to what extent an issue:

- Impacts many people in the community
- Significantly impacts subgroups in the community (gender, race/ethnicity, LGBTQ, etc.)



- Has inadequate existing resources in the community
- Has high risk for disease or death

Completion of the prioritization matrix in Appendix D resulted in numerical scores for each health need that corresponded to how well each health need met the criteria for prioritization. The scores were ranked from highest to lowest (Table 5).

**Table 5. Results from Memorial Hermann Prioritization Matrix** 

| Significant Health Need      | Impact on Community | Impact on<br>Subgroups | Inadequate<br>Resources | High Risk | Average<br>Score |
|------------------------------|---------------------|------------------------|-------------------------|-----------|------------------|
| Obesity (Exercise,           | 4.69                | 4.00                   | 3.19                    | 4.50      | 4.09             |
| <b>Nutrition and Weight)</b> |                     |                        |                         |           |                  |
| Mental Health                | 4.44                | 3.44                   | 4.50                    | 3.75      | 4.03             |
| Diabetes                     | 4.50                | 4.00                   | 3.25                    | 4.19      | 3.98             |
| Lack of Health Insurance     | 4.31                | 4.19                   | 3.38                    | 4.00      | 3.97             |
| Low-                         | 4.19                | 4.19                   | 3.44                    | 4.00      | 3.95             |
| Income/Underserved           |                     |                        |                         |           |                  |
| Heart Disease/ Stroke        | 4.44                | 3.82                   | 2.81                    | 4.44      | 3.88             |
| Substance Abuse              | 3.56                | 3.88                   | 3.63                    | 4.19      | 3.81             |
| Access to Health             | 4.00                | 3.94                   | 3.25                    | 3.88      | 3.77             |
| Services                     |                     |                        |                         |           |                  |
| Older Adults and Aging       | 4.38                | 3.81                   | 3.13                    | 3.75      | 3.76             |
| Food Insecurity              | 3.88                | 4.00                   | 3.44                    | 3.50      | 3.70             |
| Cancers                      | 4.19                | 3.19                   | 3.00                    | 4.31      | 3.67             |
| Education                    | 3.88                | 3.81                   | 3.00                    | 3.13      | 3.45             |
| Transportation               | 4.00                | 3.88                   | 2.81                    | 3.00      | 3.42             |
| Children's Health            | 4.00                | 3.50                   | 3.00                    | 3.19      | 3.42             |
| Economy                      | 3.31                | 3.31                   | 2.69                    | 2.88      | 3.05             |

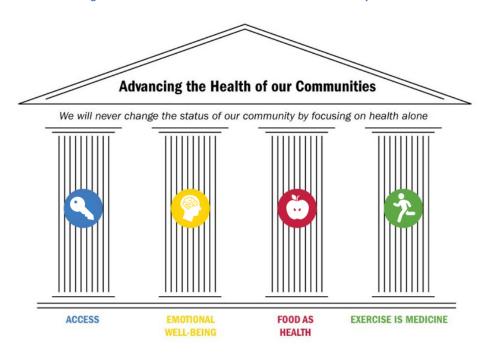
In addition to rating each need in the matrix, prioritization participants were asked to rate the level of importance of Memorial Hermann's 4 strategic pillars.

- Improving Access to Healthcare through programming, education, and social service support;
- 2. Addressing **Emotional Well-being** (mental and behavioral health) through innovative access points;
- 3. Promoting the importance of a healthy diet through screening and creating access to nutritious **Food as Health**; and,
- 4. Fostering improved health through **Exercise Is Medicine** with culturally appropriate activities.

Each of these intersecting pillars connect to each other through various points in Memorial Hermann programs and initiatives advancing the health of our communities (Figure 6).



Figure 6. Memorial Hermann's Four Pillars for Community Health



Over 93% of participants responded that the 4 pillars were important or very important. The Memorial Hermann Community Benefit team reviewed these findings, and taking into account the alignment of top needs with Memorial Hermann's strategic focus areas, a decision was made to integrate:

- Lack of Health Insurance, Low-Income/Underserved, and Access to Health Services into Pillar 1: Access to Healthcare
- Mental Health and Substance Abuse into Pillar 2: Emotional Well-Being
- Diabetes, Food Insecurity and Heart Disease/Stroke into Pillar 3: Food as Health
- Obesity (Exercise, Nutrition and Weight) into Pillar 4: Exercise Is Medicine

Through this system-wide prioritization process, the following four priorities for Memorial Hermann Health System are:

- Access to Healthcare (addressing Access to Health Services, Lack of Health Insurance, and Low-Income/Underserved)
- Emotional Wellbeing (addressing Mental Health and Substance Abuse)
- Food as Health (addressing Diabetes, Food Insecurity, and Heart Disease/Stroke)
- Exercise Is Medicine (addressing Obesity)

These four health topics will be explored further in order to understand how findings from the secondary and primary data analyses resulted in each issue being a high priority health need for Memorial Hermann Health System.



# Demographics

The following section explores the demographic profile of MH The Woodlands' service area, including Harris and Montgomery counties. The demographics of a community significantly impact its health profile. Different race/ethnic, age, and socioeconomic groups have unique needs and require different approaches to health improvement efforts. All demographic estimates are sourced from the U.S. Census Bureau's 2013-2017 American Community Survey unless otherwise indicated. Furthermore, tables in this section list indicator values for the top 75% of zip codes within MH The Woodlands' service area in descending order of inpatient discharges unless otherwise noted.

# **Population**

According to the U.S. Census Bureau's 2013-2017 American Community Survey, the two counties in MH The Woodlands' service area had populations of 4,652,980 (Harris County) and 570,934 (Montgomery County). Figure 7 illustrates the population size by county and Table 6 by zip code. The most populous zip codes in MH The Woodlands' service area are 77379 (Harris County), 77373 (Harris County), and 77386 (Montgomery County).

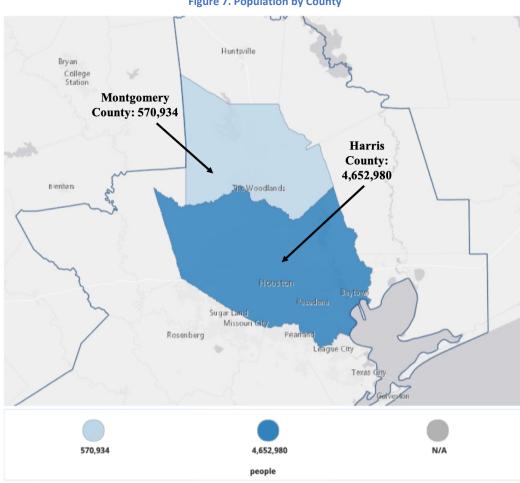


Figure 7. Population by County



**Table 6. Population by Zip Code** 

| ZIP Code | County     | Total Population |
|----------|------------|------------------|
|          |            | Estimate         |
| 77386    | Montgomery | 53,042           |
| 77381    | Montgomery | 36,919           |
| 77373    | Harris     | 58,255           |
| 77380    | Montgomery | 26,691           |
| 77388    | Harris     | 45,841           |
| 77354    | Montgomery | 35,904           |
| 77389    | Harris     | 31,883           |
| 77385    | Montgomery | 23,578           |
| 77382    | Montgomery | 40,546           |
| 77379    | Harris     | 78,226           |
| 77301    | Montgomery | 31,801           |
| 77384    | Montgomery | 16,472           |
| 77375    | Harris     | 50,525           |
| 77304    | Montgomery | 28,692           |
| 77356    | Montgomery | 25,888           |
| 77316    | Montgomery | 21,272           |
| 77302    | Montgomery | 19,311           |
| 77303    | Montgomery | 19,695           |
| 77378    | Montgomery | 16,150           |
| 77318    | Montgomery | 15,437           |
| 77073    | Harris     | 42,780           |
| 77355    | Montgomery | 27,271           |

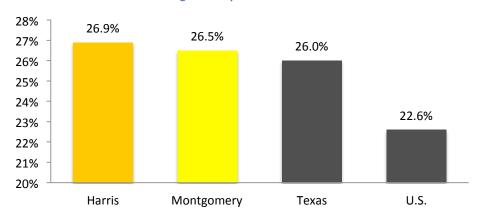
American Community Survey, 2013-2017

# Age

Figure 8 shows MH The Woodlands' service area population that is under 18 years old. 26.9% of Harris County's population and 26.5% of Montgomery County's population is under 18. Both Harris and Montgomery counties have higher proportions of residents under 18 compared to the state and national values.



Figure 8. Population Under 18



As shown in Figure 9, Harris County has a smaller proportion of older adults (10.2%) compared to Texas and the U.S. (12.3% and 15.6%, respectively). In Montgomery County, 12.9% of residents are over 65.

Figure 9. Population Over 65

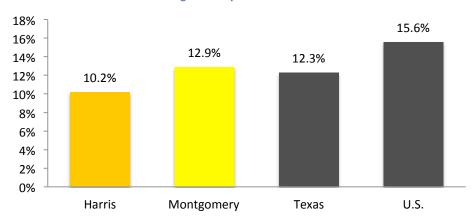


Figure 10 shows that Harris County has a larger proportion of residents under 5 years old (7.7%) compared to both Texas and the U.S. (7.2% and 6.1%, respectively). Approximately 7% of Montgomery County's population is under 5.



9% 7.7% 8% 7.2% 6.9% 7% 6.1% 6% 5% 4% 3% 2% 1% 0% Harris Montgomery **Texas** U.S.

Figure 10. Population Under 5

## Race/Ethnicity

The race and ethnicity composition of a population is important in planning for future community needs, particularly for schools, businesses, community centers, health care and child care. Race and ethnicity data are also useful for identifying and understanding disparities in housing, employment, income, and poverty.

A larger number of residents in Montgomery County identify as White, non-Hispanic while in Harris County there are a larger number of residents who identify as Hispanic or Latino. Figure 11 shows the racial composition of residents in Harris County with 42.2% of residents identifying as Hispanic or Latino (of any race); 30.6% as White; 18.5% as Black or African American; 6.8% as Asian; and 1.9% as American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, "Some other race", and/or "Two or more races".

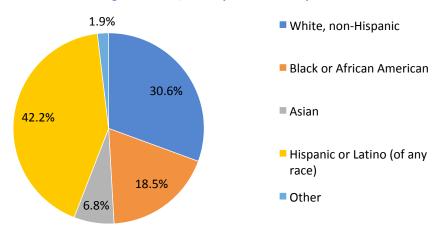


Figure 11. Race/Ethnicity in Harris County

Figure 12 shows the racial composition of residents in Montgomery County with 67.9% of residents identifying as White, non-Hispanic; 23.0% as Hispanic or Latino (of any race); 4.5% as Black or African American; 2.8% as Asian; and 1.8% as American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, "Some other race", and/or "Two or more races".



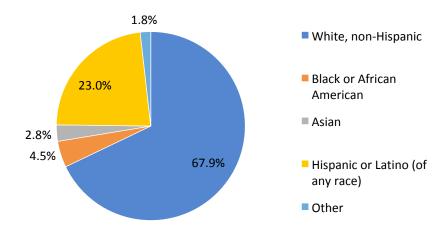


Figure 12. Race/Ethnicity in Montgomery County

#### Language

Language is an important factor to consider for outreach efforts in order to ensure that community members are aware of available programs and services.

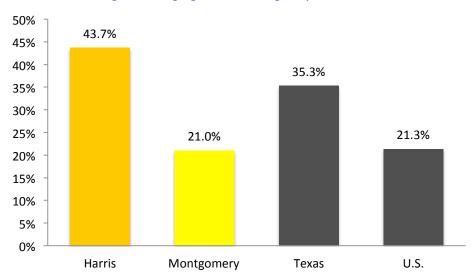


Figure 13. Language Other than English Spoken at Home

Figure 13 shows the proportion of residents in Harris and Montgomery counties who speak a language other than English at home. Montgomery County has 21% of residents who speak a language other than English at home (similar to the state value). Harris County's proportion is more than twice Montgomery County's value, with 44% of residents speaking a language other than English at home. This is an important consideration for the effectiveness of services and outreach efforts, which may be more effective if conducted in languages other than English alone.



Table 7. Population with Difficulty Speaking English by Zip Code

| ZIP Code   | County     | Difficulty Speaking |
|------------|------------|---------------------|
|            |            | English             |
| 77386      | Montgomery | 4.7%                |
| 77381      | Montgomery | 3.3%                |
| 77373      | Harris     | 8.1%                |
| 77380      | Montgomery | 7.4%                |
| 77388      | Harris     | 9.0%                |
| 77354      | Montgomery | 7.1%                |
| 77389      | Harris     | 9.0%                |
| 77385      | Montgomery | 9.4%                |
| 77382      | Montgomery | 6.2%                |
| 77379      | Harris     | 8.8%                |
| 77301      | Montgomery | 25.6%               |
| 77384      | Montgomery | 3.1%                |
| 77375      | Harris     | 12.5%               |
| 77304      | Montgomery | 5.1%                |
| 77356      | Montgomery | 1.1%                |
| 77316      | Montgomery | 4.4%                |
| 77302      | Montgomery | 8.5%                |
| 77303      | Montgomery | 9.8%                |
| 77378      | Montgomery | 15.2%               |
| 77318      | Montgomery | 5.1%                |
| 77073      | Harris     | 20.8%               |
| 77355      | Montgomery | 5.1%                |
| Harris     |            | 20.4%               |
| Montgomery |            | 7.8%                |
| Texas      |            | 14.1%               |

American Community Survey, 2013-2017

As shown in Table 7, Harris County has a larger proportion of residents with difficulty speaking English (20.4%) compared to Montgomery County (7.8%) and the state of Texas (14.1%). Although Montgomery County has a relatively lower value overall, over 25% of residents in zip code 77301 have difficulty speaking English.

#### Social and Economic Determinants of Health

This section explores the economic, environmental, and social determinants of health in MH The Woodland' service area. Social determinants are the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily life.

#### Income

Median household income reflects the relative affluence and prosperity of an area. Areas with higher median household incomes are likely to have a greater share of educated residents and lower unemployment rates.



Figure 14 compares the median household income values for the two counties in MH The Woodlands' service area to the median household income value for Texas and the U.S. Montgomery's median household income of \$74,323 is greater than that of Harris County (\$57,791). Harris County's median household income is similar to the state and national values.

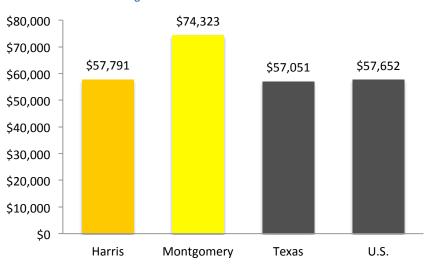


Figure 14. Median Household Income

As shown in Table 8, MH The Woodlands' top zip codes for inpatient discharges reveal a relatively high range in median household income. At \$99,076 and \$103,439 respectively, zip codes 77386 and 77381 have median household incomes noticeably higher than the state of Texas (\$57,051).

Table 8. Median Household Income by Zip Code

| ZIP Code | County     | Median Household Income |
|----------|------------|-------------------------|
| 77386    | Montgomery | \$99,076                |
| 77381    | Montgomery | \$103,439               |
| 77373    | Harris     | \$67,924                |
| 77380    | Montgomery | \$68,839                |
| 77388    | Harris     | \$87,574                |
| 77354    | Montgomery | \$79,440                |
| 77389    | Harris     | \$115,725               |
| 77385    | Montgomery | \$88,220                |
| 77382    | Montgomery | \$139,902               |
| 77379    | Harris     | \$99,693                |
| 77301    | Montgomery | \$40,795                |
| 77384    | Montgomery | \$85,371                |
| 77375    | Harris     | \$69,446                |
| 77304    | Montgomery | \$60,568                |
| 77356    | Montgomery | \$77,444                |
| 77316    | Montgomery | \$86,719                |
| 77302    | Montgomery | \$63,328                |
| 77303    | Montgomery | \$52,283                |



| ZIP Code   | County      | Median Household Income |
|------------|-------------|-------------------------|
| 77378      | Montgomery  | \$55,114                |
| 77318      | Montgomery  | \$61,722                |
| 77073      | Harris      | \$54,079                |
| 77355      | Montgomery  | \$83,713                |
| Harris     |             | \$57,791                |
| Montgomery |             | \$74,323                |
| Texas      | <del></del> | \$57,051                |

American Community Survey, 2013-2017

#### **Poverty**

Federal poverty thresholds are set every year by the Census Bureau and vary by size of family and ages of family members. A high poverty rate is both a cause and a consequence of poor economic conditions.

Figure 15 shows the proportion of residents living below the poverty level in Harris and Montgomery counties compared to Texas and the U.S. The percentage of residents living below the poverty level in Harris County (16.8%) is higher than the national value (14.6%) and slightly higher than the state value (16.0%). Approximately 10% of residents in Montgomery County live below the poverty value, which is lower than both the state and national values.

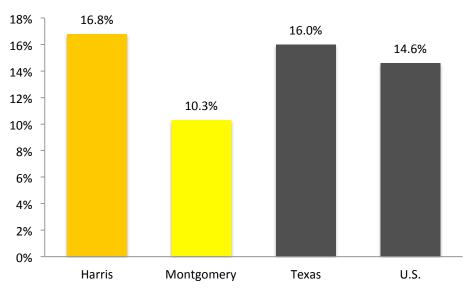


Figure 15. People Living Below Poverty Level

Figure 16 shows the proportion of residents living below the poverty level by race/ethnicity. In Harris County, 22.6% of Hispanic or Latino residents and 21.8% of Black or African American residents live below the poverty level, compared to 7.0% White and 11.4% Asian residents. The percentage of Black and Asian residents living below the poverty level in Harris County (21.8% and 11.4%, respectively) is higher than the state values for Black and Asian residents. For all race/ethnicity groups in Montgomery County, the percentage of residents living below the poverty level is lower than the values for Texas and the U.S.

Figure 16. People Living Below Poverty Level by Race/Ethnicity

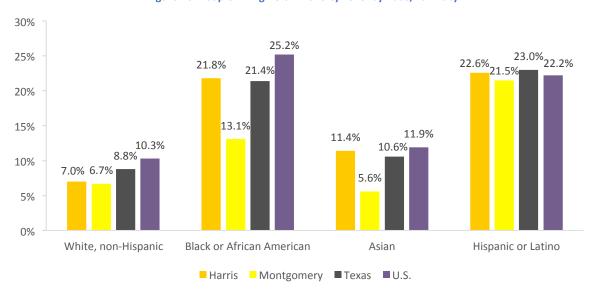
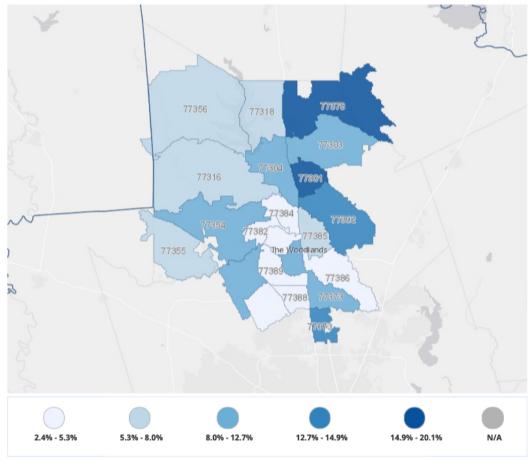


Figure 17. People Living Below Poverty Level by Zip Code



Poverty rates are higher in Harris County (16.8%) compared to Montgomery County (10.3%). As shown in Figure 17Error! Reference source not found. and Table 9, within MH The Woodlands'



service area, 18.8% of residents in zip code 77301 and 20.1% of residents in zip code 77378 are living below the poverty level, both higher than the value for Texas (16%).

**Table 9. People Living Below Poverty Level by Zip Code** 

| ZIP Code   | County People Living Below |               |
|------------|----------------------------|---------------|
|            |                            | Poverty Level |
| 77386      | Montgomery                 | 3.6%          |
| 77381      | Montgomery                 | 4.1%          |
| 77373      | Harris                     | 12.2%         |
| 77380      | Montgomery                 | 11.4%         |
| 77388      | Harris                     | 5.3%          |
| 77354      | Montgomery                 | 12.7%         |
| 77389      | Harris                     | 4.9%          |
| 77385      | Montgomery                 | 8.0%          |
| 77382      | Montgomery                 | 2.4%          |
| 77379      | Harris                     | 4.0%          |
| 77301      | Montgomery                 | 18.8%         |
| 77384      | Montgomery                 | 4.2%          |
| 77375      | Harris                     | 10.1%         |
| 77304      | Montgomery                 | 10.5%         |
| 77356      | Montgomery                 | 7.3%          |
| 77316      | Montgomery                 | 7.8%          |
| 77302      | Montgomery                 | 14.7%         |
| 77303      | Montgomery                 | 12.0%         |
| 77378      | Montgomery                 | 20.1%         |
| 77318      | Montgomery                 | 6.9%          |
| 77073      | Harris                     | 14.9%         |
| 77355      | Montgomery                 | 7.6%          |
| Harris     |                            | 16.8%         |
| Montgomery |                            | 10.3%         |
| Texas      |                            | 16.0%         |

American Community Survey, 2013-2017

# Food Insecurity

The Supplemental Nutrition Assistance Program (SNAP) is a federal assistance program that provides low-income families with electronic benefit transfers (EBTs) that can be used to purchase food. The goal of the program is to increase food security and reduce hunger by increasing access to nutritious food.

Table 10 shows the percent of households with children that participate in SNAP in the zip codes within MH The Woodlands' service area. Harris County has a higher proportion of households with children receiving SNAP compared to Texas, while Montgomery County has a lower proportion compared to the state value. In particular, zip codes 77386 and 77373 stand out, as they represent MH The Woodlands' top zip codes for inpatient discharges and also have more than 75% of households with children receiving SNAP. MH The Woodlands' top zip codes



for inpatient discharges reveal a broad range of economic circumstances in the service area. Zip code 77381 has 20.5% of households with children receiving SNAP, whereas the proportion in zip code 77386 is four times higher (81.8%).

Table 10. Households with Children Receiving SNAP by Zip Code

| ZIP Code   | County     | Households with    |
|------------|------------|--------------------|
|            |            | Children Receiving |
|            |            | SNAP               |
| 77386      | Montgomery | 81.8%              |
| 77381      | Montgomery | 20.5%              |
| 77373      | Harris     | 75.3%              |
| 77380      | Montgomery | 60.0%              |
| 77388      | Harris     | 68.3%              |
| 77354      | Montgomery | 67.8%              |
| 77389      | Harris     | 77.6%              |
| 77385      | Montgomery | 52.8%              |
| 77382      | Montgomery | 0.0%               |
| 77379      | Harris     | 68.2%              |
| 77301      | Montgomery | 55.7%              |
| 77384      | Montgomery |                    |
| 77375      | Harris     | 67.4%              |
| 77304      | Montgomery | 39.6%              |
| 77356      | Montgomery | 30.2%              |
| 77316      | Montgomery | 69.8%              |
| 77302      | Montgomery | 89.4%              |
| 77303      | Montgomery | 58.9%              |
| 77378      | Montgomery | 65.8%              |
| 77318      | Montgomery | 60.5%              |
| 77073      | Harris     | 86.0%              |
| 77355      | Montgomery | 86.1%              |
| Harris     |            | 67.7%              |
| Montgomery |            | 61.7%              |
| Texas      |            | 64.3%              |

American Community Survey, 2013-2017

# Unemployment

The unemployment rate is a key indicator of the local economy. Unemployment occurs when local businesses are not able to supply enough appropriate jobs for local employees and/or when the labor force is not able to supply appropriate skills to employers. A high rate of unemployment has personal and societal effects. During periods of unemployment, individuals are likely to feel severe economic strain and mental stress. Unemployment is also related to access to health care, as many individuals receive health insurance through their employer. A high unemployment rate places strain on financial support systems, as unemployed persons qualify for unemployment benefits and food stamp programs.



Figure 18 displays the rate of unemployment in Harris and Montgomery counties between May 2017 and November 2018. In both counties, the unemployment rate has exhibited a decrease. In November 2018, the Montgomery County rate (3.4%) was almost equivalent to the state and national rate. However, the unemployment rate in Harris County (3.8%) remains higher than Texas and the U.S.

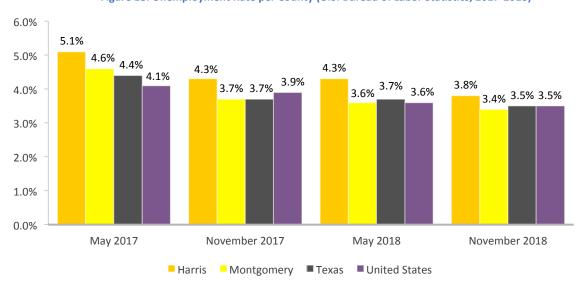


Figure 18. Unemployment Rate per County (U.S. Bureau of Labor Statistics, 2017-2018)

#### Education

Graduating from high school is an important personal achievement and is essential for an individual's social and economic advancement. Graduation rates can also be an important indicator of the performance of an educational system. Having a bachelor's degree opens up career opportunities in a variety of fields and is often a prerequisite for higher-paying jobs.

Figure 19 displays the proportion of residents in Harris and Montgomery counties who are 25 years and older with at least a high school degree. Nearly 90% of residents 25 years and older in Montgomery County have at least a high school degree compared to 80.5% in Harris County. Montgomery County's value is higher than the U.S. (87.3%) and Texas (82.8%) while Harris County's value (80.5%) is lower.



90% 87.6% 87.3% 88% 86% 84% 82.8% 82% 80.5% 80% 78% 76% Harris U.S. Montgomery **Texas** 

Figure 19. People 25+ with a High School Degree or Higher

Figure 20 shows the proportion of residents in Harris and Montgomery counties who are 25 years and older with a bachelor's degree or higher. With over 30% of residents 25 and older having a bachelor's degree in Harris and Montgomery counties, both have an economic advantage compared to some other counties in the state. The proportion of residents 25 and older with a bachelor's degree in Montgomery County (33.7%) is higher than the state value (28.7%) and the U.S. (30.9%).

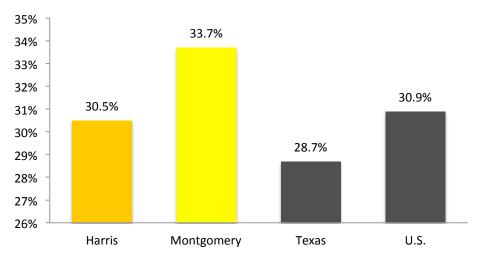


Figure 20. People 25+ with a Bachelor's Degree or Higher

Table 10 displays the educational attainment indicators for residents 25 years and older by zip code in MH The Woodlands' service area. For high school degree attainment, the zip code with the highest rate is 77381 (98%) and the zip code with the lowest rate is 77301 (63.2%). For attainment of a bachelor's degree, the zip code with the highest rate is 77382 (64.9%) and the zip code with the lowest rate is 77303 (12.3%). The zip codes with highest proportions of MH The Woodlands' inpatient discharges, zip codes 77386 and 77381, have more than 90% of people 25 years and older with a high school degree. Furthermore, in both zip codes, over 40% residents 25 years and older have a bachelor's degree or higher, compared to the state value of 28.7%.



Table 11. People 25+ with a High School Degree and People 25+ with a Bachelor's Degree by Zip Code

| ZIP Code   | County     | High School Degree | Bachelor's Degree or |
|------------|------------|--------------------|----------------------|
|            |            | or Higher          | Higher               |
| 77386      | Montgomery | 94.8%              | 42.3%                |
| 77381      | Montgomery | 98.0%              | 61.9%                |
| 77373      | Harris     | 91.6%              | 23.5%                |
| 77380      | Montgomery | 93.6%              | 47.9%                |
| 77388      | Harris     | 91.2%              | 35.7%                |
| 77354      | Montgomery | 89.1%              | 31.2%                |
| 77389      | Harris     | 95.1%              | 54.2%                |
| 77385      | Montgomery | 89.7%              | 33.9%                |
| 77382      | Montgomery | 97.1%              | 64.9%                |
| 77379      | Harris     | 94.7%              | 47.8%                |
| 77301      | Montgomery | 63.2%              | 12.7%                |
| 77384      | Montgomery | 94.6%              | 47.1%                |
| 77375      | Harris     | 89.7%              | 30.8%                |
| 77304      | Montgomery | 90.2%              | 35.0%                |
| 77356      | Montgomery | 96.6%              | 39.2%                |
| 77316      | Montgomery | 90.4%              | 31.7%                |
| 77302      | Montgomery | 84.1%              | 19.2%                |
| 77303      | Montgomery | 76.0%              | 12.3%                |
| 77378      | Montgomery | 78.1%              | 14.2%                |
| 77318      | Montgomery | 92.3%              | 26.1%                |
| 77073      | Harris     | 82.7%              | 16.4%                |
| 77355      | Montgomery | 88.4%              | 28.5%                |
| Harris     |            | 80.5%              | 30.5%                |
| Montgomery |            | 87.6%              | 33.7%                |
| Texas      |            | 82.8%              | 28.7%                |

American Community Survey, 2013-2017

#### Transportation

There are numerous ways in which transportation may influence community health. Public transportation offers mobility, particularly to people without cars. Transit can help bridge the spatial divide between people and jobs, services, and training opportunities. Public transportation also reduces fuel consumption, minimizes air pollution, and relieves traffic congestion. Walking to work helps protect the environment, while also providing the benefit of daily exercise.



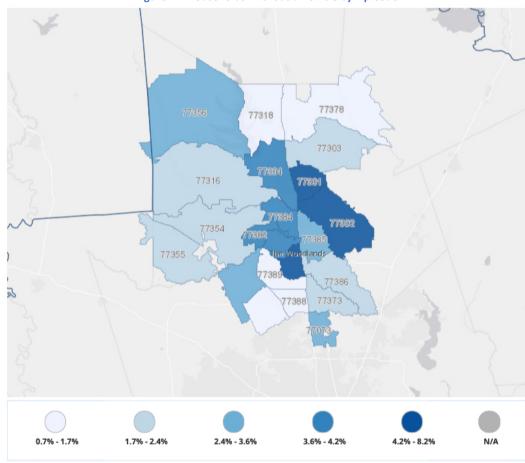


Figure 21. Households Without a Vehicle by Zip Code

Figure 21 shows the percentage of households without a vehicle. As shown, zip codes 77301 and 77302 have the highest percentages of households that do not have a vehicle.

Table 12. Modes of Commuting by Zip Code

| ZIP Code | County     | Commute by Walking | Commute by Biking | Commute<br>by Driving | Commute by Public |
|----------|------------|--------------------|-------------------|-----------------------|-------------------|
|          |            |                    |                   | Alone                 | Transportation    |
| 77386    | Montgomery | 1.2%               | 0.0%              | 82.0%                 | 1.3%              |
| 77381    | Montgomery | 1.5%               | 0.2%              | 81.1%                 | 2.7%              |
| 77373    | Harris     | 1.0%               | 0.3%              | 80.7%                 | 1.3%              |
| 77380    | Montgomery | 1.6%               | 0.9%              | 81.3%                 | 2.0%              |
| 77388    | Harris     | 0.9%               | 0.1%              | 83.8%                 | 1.6%              |
| 77354    | Montgomery | 1.2%               | 0.0%              | 80.2%                 | 0.3%              |
| 77389    | Harris     | 0.9%               | 0.0%              | 85.4%                 | 0.9%              |
| 77385    | Montgomery | 0.2%               | 0.1%              | 79.2%                 | 1.2%              |
| 77382    | Montgomery | 1.3%               | 0.0%              | 81.6%                 | 3.7%              |
| 77379    | Harris     | 0.6%               | 0.1%              | 84.3%                 | 1.8%              |
| 77301    | Montgomery | 0.5%               | 1.2%              | 75.0%                 | 0.6%              |
| 77384    | Montgomery | 0.0%               | 0.0%              | 81.6%                 | 1.1%              |
| 77375    | Harris     | 1.2%               | 0.3%              | 79.0%                 | 0.7%              |



| ZIP Code   | County     | Commute by<br>Walking | Commute by<br>Biking | Commute<br>by Driving<br>Alone | Commute by<br>Public<br>Transportation |
|------------|------------|-----------------------|----------------------|--------------------------------|--|
| 77304      | Montgomery | 1.7%                  | 0.6%                 | 83.5%                          | 1.0%                                   |
| 77356      | Montgomery | 1.1%                  | 0.0%                 | 79.3%                          | 0.7%                                   |
| 77316      | Montgomery | 0.4%                  | 0.0%                 | 83.6%                          | 0.9%                                   |
| 77302      | Montgomery | 0.6%                  | 0.0%                 | 84.9%                          | 1.5%                                   |
| 77303      | Montgomery | 0.6%                  | 0.0%                 | 84.6%                          | 0.4%                                   |
| 77378      | Montgomery | 0.0%                  | 0.0%                 | 88.3%                          | 0.1%                                   |
| 77318      | Montgomery | 1.1%                  | 0.0%                 | 79.7%                          | 1.0%                                   |
| 77073      | Harris     | 0.5%                  | 0.0%                 | 80.8%                          | 2.3%                                   |
| 77355      | Montgomery | 0.5%                  | 0.0%                 | 86.9%                          | 0.7%                                   |
| Harris     |            | 1.5%                  | 0.3%                 | 79.3%                          | 2.7%                                   |
| Montgomery |            | 0.9%                  | 0.2%                 | 82.1%                          | 1.2%                                   |
| Texas      |            | 1.6%                  | 0.3%                 | 80.5%                          | 1.5%                                   |

American Community Survey, 2013-2017

Table 12 displays the different modes of commuting used by residents of Harris and Montgomery counties. In Montgomery County, less than 1% of the population commutes by walking. In Harris County, slightly more residents commute by walking (1.5%). In both counties, the majority of residents commute by driving alone (79.3% in Harris County and 82.1% in Montgomery County), which is similar to the state value (80.5%).

Public transportation is used by Harris County residents (2.7%) more so than Montgomery residents (1.2%), perhaps indicative of differences in public transportation infrastructure. Although public transportation is not as common in Montgomery County compared to Harris County, 3.7% of residents living in zip code 77382 commute by public transportation. Considering the top ten zip codes for inpatient discharges within MH The Woodlands' service area, zip codes 77380, 77381, and 77382 have the highest proportions of residents commuting by public transportation.

#### SocioNeeds Index®

Conduent Healthy Communities Institute developed the SocioNeeds Index® to easily compare multiple socioeconomic factors across geographies. This index incorporates estimates for six different social and economic determinants of health – income, poverty, unemployment, occupation, educational attainment, and linguistic barriers – that are associated with poor health outcomes including preventable hospitalizations and premature death.

Zip codes within each county are assigned an index value from 0 (low need) to 100 (high need), based on how those zip codes compare to others in the U.S. Within each county, the zip codes are then ranked from 1 (low need) to 5 (high need) to identify the relative level of need. Zip codes with populations under 300 persons are excluded.



77356
77316
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77381
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Figure 22. SocioNeeds Index by Zip Code

As shown in Figure 22 and Table 13, most of the zip codes within MH The Woodlands' service area with the highest SocioNeeds Index values are within Montgomery County; zip codes 77301 and 77303 both have values greater than 80. The zip codes with largest proportion of inpatient discharges at MH The Woodlands, zip codes 77386 and 77381, have low SocioNeeds Index values (6.2 and 2.4, respectively).

Table 13. SocioNeeds Index by Zip Code (In Order of SocioNeeds Index Value)

| ZIP Code | County     | SocioNeeds Index Value |
|----------|------------|------------------------|
| 77301    | Montgomery | 91.6                   |
| 77303    | Montgomery | 81.3                   |
| 77073    | Harris     | 77.1                   |
| 77378    | Montgomery | 69.9                   |
| 77302    | Montgomery | 67.0                   |
| 77373    | Harris     | 42.0                   |
| 77355    | Montgomery | 34.0                   |
| 77318    | Montgomery | 32.3                   |
| 77304    | Montgomery | 30.4                   |
| 77375    | Harris     | 24.6                   |
| 77385    | Montgomery | 17.3                   |



| ZIP Code | County     | SocioNeeds Index Value |
|----------|------------|------------------------|
| 77354    | Montgomery | 14.1                   |
| 77356    | Montgomery | 13.2                   |
| 77388    | Harris     | 13.1                   |
| 77380    | Montgomery | 11.5                   |
| 77316    | Montgomery | 11.4                   |
| 77379    | Harris     | 8.1                    |
| 77389    | Harris     | 7.2                    |
| 77386    | Montgomery | 6.2                    |
| 77384    | Montgomery | 5.8                    |
| 77381    | Montgomery | 2.4                    |
| 77382    | Montgomery | 2.2                    |

Conduent SocioNeeds Index, 2019



## Data Synthesis

All forms of data have their own strengths and limitations. To gain a comprehensive understanding of the significant health needs for Memorial Hermann Health System, the findings from both the primary data and the secondary data were compared and studied together.

The secondary data, key informant interviews and community survey were treated as three separate sources of data. The secondary data were analyzed using data scoring, which identified health areas of need based on the values of indicators for each topic area (Appendix B). Table 14 and Table 15 display the data scores for Health and Quality of Life Topics for Harris and Montgomery counties.

**Table 14. Harris County Topic Scores** 

| Topic                               | Score |
|-------------------------------------|-------|
| Transportation                      | 1.82  |
| Women's Health                      | 1.81  |
| Immunizations & Infectious Diseases | 1.78  |
| Other Chronic Diseases              | 1.78  |
| Public Safety                       | 1.65  |
| Maternal, Fetal & Infant Health     | 1.64  |
| Prevention & Safety                 | 1.58  |
| Social Environment                  | 1.58  |
| Education                           | 1.56  |
| Economy                             | 1.55  |
| Heart Disease & Stroke              | 1.54  |
| Children's Health                   | 1.52  |
| Older Adults & Aging                | 1.50  |
| Access to Health Services           | 1.48  |
| Exercise, Nutrition, & Weight       | 1.48  |
| Wellness & Lifestyle                | 1.42  |
| Men's Health                        | 1.38  |
| Diabetes                            | 1.34  |
| Environment                         | 1.34  |
| Substance Abuse                     | 1.33  |
| Cancer                              | 1.31  |
| Mortality Data                      | 1.29  |
| Mental Health & Mental Disorders    | 1.26  |
| Respiratory Diseases                | 0.99  |

**Table 15. Montgomery County Topic Scores** 

| Topic                     | Score |
|---------------------------|-------|
| Transportation            | 1.93  |
| Heart Disease & Stroke    | 1.65  |
| Access to Health Services | 1.56  |
| Other Chronic Diseases    | 1.52  |



| Topic                               | Score |
|-------------------------------------|-------|
| Exercise, Nutrition, & Weight       | 1.50  |
| Substance Abuse                     | 1.49  |
| Children's Health                   | 1.37  |
| Older Adults & Aging                | 1.36  |
| Women's Health                      | 1.35  |
| Public Safety                       | 1.33  |
| Environment                         | 1.32  |
| Immunizations & Infectious Diseases | 1.32  |
| Mental Health & Mental Disorders    | 1.31  |
| Education                           | 1.11  |
| Social Environment                  | 1.10  |
| Respiratory Diseases                | 1.08  |
| Cancer                              | 1.06  |
| Economy                             | 1.04  |
| Mortality Data                      | 1.00  |
| Men's Health                        | 0.95  |
| Wellness & Lifestyle                | 0.93  |
| Prevention & Safety                 | 0.85  |
| Maternal, Fetal & Infant Health     | 0.83  |

This methodology was applied to each of the 12 counties within Memorial Hermann Health System's primary service area and then data scores calculated for the region in order to determine significant health needs across the system. Table 16 lists the resulting data scores for Health & Quality of Life Topic Areas.

**Table 16. Memorial Hermann Region Topic Scores** 

| Topic                               | Score |
|-------------------------------------|-------|
| Transportation                      | 1.84  |
| Heart Disease & Stroke              | 1.82  |
| Access to Health Services           | 1.79  |
| Older Adults & Aging                | 1.60  |
| Exercise, Nutrition, & Weight       | 1.56  |
| Other Chronic Diseases              | 1.52  |
| Mental Health & Mental Disorders    | 1.50  |
| Children's Health                   | 1.47  |
| Immunizations & Infectious Diseases | 1.43  |
| Education                           | 1.43  |
| Women's Health                      | 1.42  |
| Social Environment                  | 1.42  |
| Wellness & Lifestyle                | 1.41  |
| Maternal, Fetal & Infant Health     | 1.41  |
| Respiratory Diseases                | 1.41  |
| Economy                             | 1.41  |
| Environment                         | 1.40  |



| Topic               | Score |
|---------------------|-------|
| Public Safety       | 1.36  |
| Cancer              | 1.31  |
| Prevention & Safety | 1.26  |
| Substance Abuse     | 1.23  |
| Men's Health        | 1.21  |

The analysis of key informant interviews occurred using the qualitative software: Dedoose<sup>1</sup>. For the community survey, HCI performed a simple review and analysis to identify top health needs. Overall, each method produced individual results that represent the community input in this report. This consolidated input leads to the prioritized heath needs in this report. This triangulated approach is shown in Figure 23.

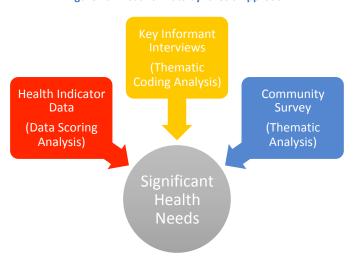
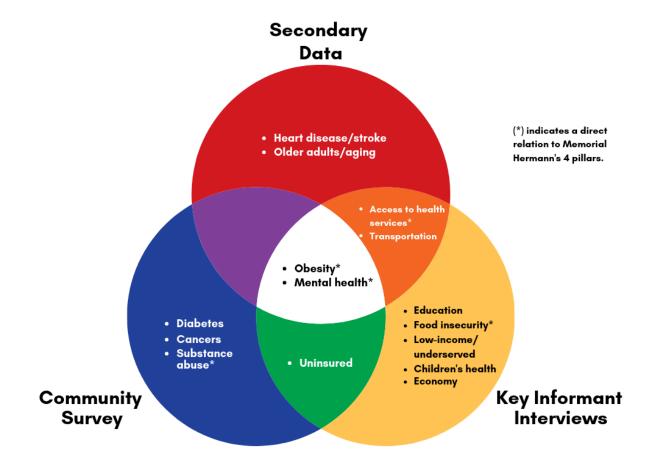


Figure 23. Visual of Data Synthesis Approach

The team used the triangulated approach to identify significant health needs for Memorial Hermann Health System. Figure 24 displays the results of this synthesis. For many of the health topics evidence of need was present across multiple data sources, including Obesity, Mental Health, Access to Health Services, Transportation, and Uninsured. For other health topics the evidence was present in just one source of data, however it should be noted that this may be reflective of the strength and limitations of each type of data that was considered in this process.



Figure 24. Data Synthesis Results



## Prioritized Significant Health Needs

### **Prioritization Results**

Upon completion of the online prioritization survey, four health areas were identified for subsequent implementation planning by Memorial Hermann Health System. These four health priorities are: Access to Care, Emotional Well-Being, Food as Health, and Exercise Is Medicine.

The following section will dive deeper into each of these health topics in order to understand how findings from the secondary and primary data led to each health topic becoming a priority health issue for Memorial Hermann Health System. For each prioritized health need, key issues are summarized; secondary data scores are noted for indicators of concern; and community input is described.

## Secondary Data Scoring Methodology

For each indicator, each county in MH The Woodlands' service area was assigned a score based on its comparison to other communities, whether health targets have been met, and the trend of the indicator value over time. These comparison scores range from 0-3, where 0 indicates the best outcome and 3 the worst. Availability of each type of comparison varied by indicator and was dependent upon the data source, comparability with data collected for other communities, and changes in methodology over time. Please see Appendix B for further information on HCI Data Scoring methodology.

## Access to Healthcare

#### **Key Issues:**

- Range of barriers, including transportation, access to specialty care, lack of awareness, and fear or stigma
- Lack of health insurance
- Low income and vulnerable groups

#### Secondary Data

Access to Health Services, Lack of Insurance and Low-Income/Underserved were identified as significant needs for Memorial Hermann Health System. As shown in Table 17, several indicators received scores of 1.75 or above through the secondary data scoring process: Adults Unable to See a Doctor (Harris County); Adults with Health Insurance (Harris County); Children with Health Insurance (Harris County); Mental Health Provider Rate (Montgomery County); and Persons with Health Insurance (Harris County).

Table 17. Secondary Data Scoring Results: Access to Health Services

| Table 177 Secondary Bata Scotting Results. Access to Hearth Services |            |       |       |                           |       |       |        |       |  |
|--|------------|-------|-------|---------------------------|-------|-------|--------|-------|--|
|  | County     |       |       | County Value Compared to: |       |       |        |       |  |
|  |            |       | Data  | тх                        | TX    | US    | HP     | Trend |  |
| Indicator  | Name       | Value | Score | Counties                  | Value | Value | 2020   | Over  |  |
|  |            |       |       |                           |       |       | Target | Time  |  |
| Adults Unable to<br>Afford to See a<br>Doctor [10] (2015)            | Montgomery |       |       |                           |       |       |        |       |  |



|   |                  | 22.1                                      |          |     |   |     |     |     |
|---|------------------|---|----------|-----|---|-----|-----|-----|
|   | Harris           | percent                                   | 2        | 1.5 | 3 | 3   | 1.5 | 1.5 |
| [10] Texas Behavioral Risk Factor Surveillance System |                  |   |          |     |   |     |     |     |
| Adults with Health                                    | Montgomery       | 79.7                                      | 1.47     | 0   | 1 | 1.5 | 3   | 1   |
| Insurance: <b>18-64</b> [9]                           |                  | percent                                   |          |     |   |     |     |     |
| (2016)  | Harris           | 74.7<br>percent                           | 1.75     | 2   | 2 | 1.5 | 3   | 0   |
| [9] Small Area Health Ir                              | nsurance Estimat | tes                                       |          |     |   |     |     |     |
|   | Montgomery       | 90.2                                      | 1.53     | 0   | 2 | 1.5 | 2   | 1   |
| Children with Health                                  | Wionigomery      | percent                                   | 1.55     | Ů   |   | 1.5 |     | 1   |
| Insurance [9] (2016)                                  | Harris           | 89.4<br>percent                           | 1.81     | 1   | 2 | 1.5 | 3   | 1   |
| [9] Small Area Health Ir                              | nsurance Estimat | tes                                       | <u>l</u> |     |   |     |     |     |
| Dentist Rate [4]                                      | Montgomery       | 45.5<br>dentists/ 100,000<br>population   | 1.56     | 0   | 3 | 3   | 1.5 | 1   |
| (2016)  | Harris           | 66.3<br>dentists/ 100,000<br>population   | 0.5      | 0   | 0 | 2   | 1.5 | 0   |
| [4] County Health Rank                                | ings             |   |          |     |   |     |     |     |
| Mental Health   | Montgomery       | 69.4<br>providers/ 100,000<br>population  | 2        | 1   | 3 | 3   | 1.5 | 1.5 |
| <b>Provider Rate</b> [4] (2017)                       | Harris           | 103.7<br>providers/ 100,000<br>population | 1.44     | 0   | 1 | 3   | 1.5 | 2   |
| [4] County Health Rank                                | ings             |   | <u>l</u> |     |   |     |     |     |
| Non-Physician<br>Primary Care                         | Montgomery       | 55<br>providers/ 100,000<br>population    | 1.67     | 1   | 3 | 3   | 1.5 | 0   |
| Provider Rate [4]<br>(2017)                           | Harris           | 72.2<br>providers/ 100,000<br>population  | 1        | 0   | 1 | 3   | 1.5 | 0   |
| [4] County Health Rank                                | ings             |   |          |     |   |     |     |     |
| Persons with Health                                   | Montgomery       | 83.1<br>percent                           | 1.47     | 0   | 1 | 1.5 | 3   | 1   |
| Insurance [9] (2016)                                  | Harris           | 79.3<br>percent                           | 1.75     | 2   | 2 | 1.5 | 3   | 0   |
| [9] Small Area Health Ir                              | nsurance Estimat | tes                                       |          |     |   |     |     |     |
| Primary Care  | Montgomery       | 61.8                                      | 1.22     | 0   | 1 | 3   | 1.5 | 1   |



| Provider Rate [4]<br>(2015) |        | providers/ 100,000 population            |      |   |   |   |     |   |
|-----------------------------|--------|--|------|---|---|---|-----|---|
|                             | Harris | 57.2<br>providers/ 100,000<br>population | 1.61 | 0 | 2 | 3 | 1.5 | 2 |
| [4] County Health Rankings  |        |  |      |   |   |   |     |   |

When considering Access to Health Services, it is important to take into account the economy and how financial barriers impact community residents' ability to access care. As shown in Table 18, both counties have indicators of concern, including: Families Living Below Poverty Level (Harris County); Female Population 16+ in Civilian Labor Force (Montgomery County); Food Insecurity Rate (Harris County); Homeownership (Harris County); Median Household Gross Rent (Harris and Montgomery counties); Median Monthly Owner Costs for Households without a Mortgage (Harris and Montgomery counties); Mortgaged Owners Median Monthly Household Costs (Montgomery County); People 65+ Living Below Poverty Level (Harris County); Severe Housing Problems (Harris County); SNAP Certified Stores (Harris and Montgomery counties); Students Eligible for the Free Lunch Program (Harris County); and Unemployed Workers in Civilian Labor Force (Harris County). Out of this list, Harris County had eight economic indicators with secondary data scores above 2 compared to Montgomery County with four indicators equal to or above 2, indicating potentially greater economic need in Harris County.

**Table 18. Secondary Data Scoring Results: Economy** 

|   |            | County          |               | County Value Compared to: |             |             |                      |                       |
|---|------------|-----------------|---------------|---------------------------|-------------|-------------|----------------------|-----------------------|
| Indicator   | Name       | Value           | Data<br>Score | TX<br>Counties            | TX<br>Value | US<br>Value | HP<br>2020<br>Target | Trend<br>Over<br>Time |
| Child Food Insecurity<br>Rate [5] (2016)                  | Montgomery | 21.2<br>percent | 1.17          | 0                         | 1           | 3           | 1.5                  | 0                     |
|   | Harris     | 23.5<br>percent | 1.67          | 1                         | 2           | 3           | 1.5                  | 0                     |
| [5] Feeding America                                       |            |                 |               |                           |             |             |                      |                       |
| Children Living Below                                     | Montgomery | 14.8<br>percent | 0.17          | 0                         | 0           | 0           | 1.5                  | 0                     |
| Poverty Level [1]<br>(2012-2016)                          | Harris     | 26.0<br>percent | 1.67          | 2                         | 2           | 3           | 1.5                  | 0                     |
| [1] American Communi                                      | ty Survey  |                 |               |                           |             |             |                      |                       |
| Families Living Below<br>Poverty Level [1]<br>(2012-2016) | Montgomery | 8.3<br>percent  | 0.56          | 0                         | 0           | 0           | 1.5                  | 1                     |
|   | Harris     | 14.4<br>percent | 2.06          | 2                         | 3           | 3           | 1.5                  | 1                     |



| [1] American Communi                              | ty Survey  |                 |      |   |   |   |     |   |
|---|------------|-----------------|------|---|---|---|-----|---|
| Female Population                                 | Montgomery | 53.6<br>percent | 2    | 1 | 2 | 2 | 1.5 | 3 |
| 16+ in Civilian Labor<br>Force [1] (2012-2016)    | Harris     | 59.8<br>percent | 0.94 | 0 | 1 | 1 | 1.5 | 2 |
| [1] American Communi                              | ty Survey  |                 |      |   |   |   |     |   |
| Food Insecurity Rate                              | Montgomery | 14.6<br>percent | 1.33 | 1 | 1 | 3 | 1.5 | 0 |
| [5] (2016)  | Harris     | 16.6<br>percent | 2.06 | 2 | 2 | 3 | 1.5 | 1 |
| [5] Feeding America                               |            |                 |      |   |   |   |     |   |
| Homeownership [1]                                 | Montgomery | 65.6<br>percent | 0.61 | 0 | 0 | 0 | 1.5 | 2 |
| (2012-2016)                                       | Harris     | 49.6<br>percent | 2.44 | 3 | 2 | 3 | 1.5 | 2 |
| [1] American Communi                              | ty Survey  |                 | _    |   |   |   |     |   |
| Median Household<br>Gross Rent [1] (2012-         | Montgomery | 1077<br>dollars | 2.58 | 3 | 3 | 3 | 1.5 | 3 |
| 2016)   | Harris     | 937<br>dollars  | 2.08 | 3 | 2 | 1 | 1.5 | 3 |
| [1] American Communi                              | ty Survey  |                 |      |   |   |   | -   |   |
| Median Monthly Owner Costs for Households without | Montgomery | 531<br>dollars  | 2.58 | 3 | 3 | 3 | 1.5 | 3 |
| a Mortgage [1] (2012-<br>2016)                    | Harris     | 534<br>dollars  | 2.14 | 3 | 3 | 3 | 1.5 | 1 |
| [1] American Communi                              | ty Survey  |                 |      |   |   |   |     |   |
| Mortgaged Owners<br>Median Monthly                | Montgomery | 1635<br>dollars | 2.19 | 3 | 3 | 2 | 1.5 | 2 |
| Household Costs [1]<br>(2012-2016)                | Harris     | 1504<br>dollars | 1.81 | 3 | 2 | 2 | 1.5 | 1 |
| [1] American Communi                              | ty Survey  |                 | _    |   |   |   |     |   |
| People 65+ Living<br>Below Poverty Level          | Montgomery | 7.7<br>percent  | 0.78 | 0 | 0 | 0 | 1.5 | 2 |
| [1] (2012-2016)                                   | Harris     | 11.3<br>percent | 1.89 | 2 | 2 | 3 | 1.5 | 1 |
| [1] American Communi                              | ty Survey  |                 |      |   |   |   |     |   |
| People Living Below<br>Poverty Level [1]          | Montgomery | 11.0<br>percent | 0.17 | 0 | 0 | 0 | 1.5 | 0 |
| (2012-2016)                                       | Harris     | 17.4            | 1.67 | 2 | 2 | 3 | 1.5 | 0 |



|  |                    | percent                            |      |   |     |     |     |     |
|--|--------------------|------------------------------------|------|---|-----|-----|-----|-----|
| [1] American Communi   | ty Survey          |                                    |      |   |     |     |     |     |
| Severe Housing   | Montgomery         | 16.0<br>percent                    | 1.28 | 2 | 0   | 0   | 1.5 | 2   |
| Problems [4] (2010-<br>2014)   | Harris             | 20.9<br>percent                    | 2.39 | 3 | 3   | 3   | 1.5 | 1   |
| [4] County Health Rank   | ings               |                                    |      |   |     |     |     |     |
| SNAP Certified Stores  | Montgomery         | 0.5<br>stores/ 1,000<br>population | 1.89 | 3 | 1.5 | 1.5 | 1.5 | 1   |
| [17] (2016)  | Harris             | 0.6<br>stores/ 1,000<br>population | 2.11 | 3 | 1.5 | 1.5 | 1.5 | 2   |
| [17] U.S. Department of  | f Agriculture - Fo | ood Environment Atlas              |      |   |     |     |     |     |
| Students Eligible for the Free Lunch                                 | Montgomery         | 35.1<br>percent                    | 0.56 | 0 | 0   | 0   | 1.5 | 1   |
| Program [8] (2015-<br>2016)  | Harris             | 58.2<br>percent                    | 2.22 | 2 | 3   | 3   | 1.5 | 1   |
| [8] National Center for  | Education Statis   | stics                              |      |   |     |     |     |     |
| Total Employment   | Montgomery         | 3.5<br>percent                     | 1    | 1 | 1   | 0   | 1.5 | 1.5 |
| <b>Change</b> [16] (2014-2015)                                       | Harris             | 2.4<br>percent                     | 1.67 | 1 | 3   | 2   | 1.5 | 1.5 |
| [16] U.S. Census - Coun  | ty Business Patte  | erns                               |      |   |     |     |     |     |
| Unemployed<br>Workers in Civilian<br>Labor Force [15] (July<br>2018) | Montgomery         | 3.8<br>percent                     | 1.28 | 1 | 1   | 1   | 1.5 | 2   |
|  | Harris             | 4.4<br>percent                     | 1.94 | 2 | 2   | 2   | 1.5 | 2   |
| [15] U.S. Bureau of Labo   | or Statistics      |                                    |      |   |     |     |     |     |

## Primary Data

During the key informant interview process, Access to Health Services was discussed over 160 times and was raised by participants almost 50 times in relation to barriers or challenges to achieving health in the community. The primary themes related to barriers or challenges were limitations to procuring specialty care services, transportation to services and hours of operation. In addition to the primary themes, two additional barriers or challenges stood out as key factors impacting access to health care services, lack of knowledge and stigma or fear preventing people from seeking care.

The issue that interview participants were most concerned with was patients being able to access follow up care with specialty care providers.



"We have a year-long waiting list for our dental services (...) having more clinics or places for patients to go is a huge need."

Multiple participants raised concerns that even if patients are able to access preventative or primary care services, they may not be able to access the appropriate follow up care with a specialty care provider. Some participants raised this concern in context of patients not living near a specialist and others raised in context of patients not being able to afford the cost of follow up care.

"We can take care of helping them control their diabetes, and keep their blood pressure in check, and we can treat them for that common cold, we can provide that annual pap smear for the woman and provide that mammogram, but it's when the person experiences something of a more significant issue—say they have a gallbladder attack, or they have a hernia—that is just a resource that we simply don't have. Or someone needs to see an orthopedic surgeon. We try to take care of them the best that we can in the setting that we have, but that is a huge barrier that we face with our patients, or that our patients face. So, what happens is it becomes an urgent situation, and they end up in the emergency room, and they're given surgery on an emergency basis."

Another common concern raised by interview participants, was transportation to services and hours of operation of services limiting patients' access to care. Participants described how these factors determine whether patients decide to take off from work and seek services in the first place. A few participants described the many services and resources that are available to the community but that many may not be aware how they can access or benefit from them. One participant described resources being concentrated in certain geographic areas and more remote locations not being well connected or knowledgeable about how they may also benefit from these resources. Participants described the potential for more collaboration and partnership to connect communities to one another.

"I would love to see somebody from the public assistance, and I'll just call it Medicaid, or the public benefits, maybe have an office inside the hospital. That would be phenomenal. I've worked in a different state as a hospital social worker previously, and there was someone from a public assistance, from the Department of Human Health and Welfare Services in the hospital, and that person was able to connect the people there with emergency Medicaid, with Medicaid, which also helps the hospital. Have their bills paid and whatnot, and maybe it would cut down on outsourcing and some of the collections and whatnot. I think that that would be wonderful, would be to have someone from the state public benefits program housed inside the hospital."

Several participants described a down-turn in people seeking preventative care service and hypothesized that one of the factors may be related to the immigrant community in the region experiencing fear or stigma related to having to show identification or proof of citizenship.

There were almost 80 references to the uninsured population in the key informant interviews and lack of health insurance was raised as a barrier or challenge to achieving health in the community 19 times. Lack of health insurance was most often brought up in context of patients



having limited financial resources and a factor to not accessing health care services. Participants discussed patients not having the ability to pay fees for multiple appointment co-pays or not seeking care due to competing financial priorities. While health care services may be available in the community, for those who are lacking health insurance, accessing health care services is not necessarily an option. Lack of health insurance creates a particular challenge for those who require specialty care services.

"I think those are the biggest two—access, again, with the majority of our adult population being uninsured, having them try to find a provider that, again, will take sliding fee scale, or reduced rates. Once they're able to access those services, then it becomes a matter of paying for the things that are needed. The patient comes in and we diagnose them with diabetes, then comes the cost of medications, and if that patient is needing specialty care outside of the scope of primary care, access to specialists."

Participants brought up issues related to low income or groups who may be underserved in the community 115 times during the key informant interview process. Particular groups that participants felt may experience added challenges accessing health care services included the immigrant population, individuals with disabilities, families with young children, and the elderly. Several participants raised fees related to co-pays or out of pocket expenses as a barrier to patients seeking initial preventative services or ongoing treatment for chronic conditions. Participants identified several groups they felt were underserved in the community. Multiple participants discussed the unique and specific challenges with providing culturally appropriate care for a diverse and recent immigrant population in the community. Participants felt that families with young children and the elderly population are particularly vulnerable groups in the community that experience barriers and challenges accessing health care services. Specifically, participants discussed these groups experiencing high levels of poverty placing them at higher risk for poor health outcomes.

## **Emotional Well-Being**

#### **Key Issues:**

- Mental health as part of overall health
- Need for more behavioral health services and providers
- Alcohol and substance abuse
- Alzheimer's and dementia

## Secondary Data

Mental Health and Substance Abuse were identified as significant needs for Memorial Hermann Health System. Substance Abuse ranked sixth in the top topics for Montgomery County's secondary data results.

As shown in Table 19, in Montgomery County, mental health indicators of note include: Mental Health Provider Rate and Age-Adjusted Death Rate due to Suicide. While Mental Health & Mental Disorders did not rank as high for Harris County, an indicator to note is Alzheimer's Disease or Dementia in the Medicare Population.



**Table 19. Secondary Data Scoring Results: Mental Health & Mental Disorders** 

|   |                  | County                                    |               |                |             |             | pared to:            |                       |
|---|------------------|---|---------------|----------------|-------------|-------------|----------------------|-----------------------|
| Indicator                                 | Name             | Value                                     | Data<br>Score | TX<br>Counties | TX<br>Value | US<br>Value | HP<br>2020<br>Target | Trend<br>Over<br>Time |
| Age-Adjusted Death<br>Rate due to Suicide | Montgomery       | 14.6<br>deaths/ 100,000<br>population     | 2.28          | 1.5            | 3           | 3           | 3                    | 2                     |
| [12] (2010-2014)                          | Harris           | 10.3<br>deaths/ 100,000<br>population     | 0.94          | 1.5            | 0           | 0           | 2                    | 1                     |
| [12] Texas Department                     | of State Health  | Services                                  |               |                |             |             |                      |                       |
| Alzheimer's Disease or Dementia:          | a:               | 10.7<br>percent                           | 1.67          | 1              | 1           | 2           | 1.5                  | 1.5                   |
| Medicare Population<br>[3] (2015)         |                  | 11.4<br>percent                           | 1.89          | 2              | 1           | 3           | 1.5                  | 1                     |
| [3] Centers for Medicar                   | e & Medicaid Se  | rvices                                    |               |                |             |             |                      |                       |
| Mental Health                             | Montgomery       | 69.4<br>providers/ 100,000<br>population  | 2             | 1              | 3           | 3           | 1.5                  | 1.5                   |
| <b>Provider Rate</b> [4] (2017)           | Harris           | 103.7<br>providers/ 100,000<br>population | 1.44          | 0              | 1           | 3           | 1.5                  | 2                     |
| [4] County Health Rank                    | ings             |   |               |                |             |             |                      |                       |
| Poor Mental Health:                       | Montgomery       |   |               |                |             |             |                      |                       |
| 5+ Days [10] (2016)                       | Harris           | 80.0<br>percent                           | 1.53          | 1.5            | 1           | 1.5         | 1.5                  | 2                     |
| [10] Texas Behavioral R                   | isk Factor Surve | illance System                            |               |                |             |             |                      |                       |

Substance Abuse is another topic of concern for Memorial Hermann Health System. Both Harris and Montgomery counties have indicators with scores above 2. There were over 37% alcohol-impaired driving deaths in Harris County and almost 33% in Montgomery County, compared to 29.3% in the U.S. Moreover, 21% of adults drink excessively in Montgomery County as compared to the national value of 18%.

**Table 20. Secondary Data Scoring Results: Substance Abuse** 

|                  | County     |       |       | County Value Compared to: |       |       |                |              |
|------------------|------------|-------|-------|---------------------------|-------|-------|----------------|--------------|
|                  |            |       | Data  | тх                        | TX    | US    | HP             | Trend        |
| Indicator        | Name       | Value | Score | Counties                  | Value | Value | 2020<br>Target | Over<br>Time |
| Adults who Drink | Montgomery | 21.0  | 2.17  | 3                         | 2     | 3     | 0              | 1.5          |



| Excessively [4] (2016)              |            | percent |      |   |   |   |     |     |
|-------------------------------------|------------|---------|------|---|---|---|-----|-----|
|                                     | Harris     | 18.1    | 1.5  | 2 | 1 | 2 | 0   | 1.5 |
|                                     | 1101113    | percent |      | _ | - | _ |     | 1.5 |
| [4] County Health Rankings          |            |         |      |   |   |   |     |     |
|                                     | Montgomony | 32.9    | 2.06 | 2 | 3 | 3 | 1.5 | 1   |
| Alcohol-Impaired Driving Deaths [4] | Montgomery | percent | 2.00 | 2 | 7 | 7 | 1.5 | 1   |
| (2012-2016)                         | Harris     | 37.8    | 2.17 | 3 | 3 | 3 | 1.5 | 0   |
| ,                                   | Панть      | percent | 2.17 | 3 | n | n | 1.5 | b   |
| [4] County Health Rankings          |            |         |      |   |   |   |     |     |

#### Primary Data

Approximately 50% of community survey respondents cited Mental Health as one of the top issues most affecting the quality of life in their community and 52% of respondents noted Substance Abuse. In interviews with key informants, Mental Health was discussed 113 times and was raised by participants 33 times as a needs or concern for the health of the community. The primary themes related to Mental Health were treating mental health as part of overall health, address behavioral health in school, need for behavioral health providers and services, and older adults with Alzheimer's and dementia.

Some participants discussed a recent shift in care delivery and the continued need to address mental health as part of a person's total health similarly to how chronic disease is managed. One particularly vulnerable population that would benefit from a broader approach to treatment, inclusive of mental health, is the homeless population. Several participants brought up issues regarding a need for more behavioral health providers and services in the community.

"We here see a huge gap in mental health, there's just not a lot of supportive services for mental health, and we're seeing that to really hit our young adults, our adults who are in their 20s. We see a lot of people having a lot of PTSD or even having a psychotic break, and we only have one agency that would support somebody maybe without insurance that's having mental health issues, which is causing so much trauma for them from that point forward. I would say one of the huge indicators for us would be mental health, it's huge for us."

One participant observed recent increases and changes within the local population. From the participant's perspective, there should be more programs or services to address the growing need for addressing mental health in the community. Another participant suggested solutions for addressing the need for more behavioral health providers in the community such as expanding residency programs for psychiatrists and developing comprehensive telemedicine programs to provide services more efficiently.

Furthermore, participants recommended addressing behavioral health with younger populations in the schools. Schools that provide behavioral health services through telemedicine have been received well in the community and the perception is that they are



effective. Some participants believe that these programs should be expanded and available across the community.

"There [are] the mental health units that have gone out into the schools. They're not school-based but that's the venue they will drive to with their mobile units. They have a big impact. They're seeing thousands of kids. They've done some telemedicine with mental health, behavioral health, with some of the high schools. From what I've heard, (...) it's been pretty effective and well received."

A challenge that health care providers identified for the medical community is adequately addressing dementia and Alzheimer's within the geriatric population.

"Dementia's a terminal illness. (...) Much more needs to be done with healthcare systems around routine screening and identification of it as an issue. (...) So, that is the first thing that needs to happen. Then there needs to be an understanding that there are things – there are medications that can be helpful to the systems of the dementia. (...) But you can affect it by addressing some of the symptoms."

Substance Abuse was discussed 55 times and was raised by participants 15 times as a need or concern for the health of the community. Multiple unique themes emerged from the interviews related to Substance Abuse: funding for treatment programs, invisibility of alcoholism, overcoming stigma of seeking treatment, and emerging shifts in outreach models. Participants identified funding for programs and availability of services for those who may not be able to afford treatment out-of-pocket as issues the community is facing to address substance abuse.

"(...) we're seeing a lot of addiction and (...) if you don't have the funds to go into a treatment program, your options are limited and there's a wait time."

One participant raised alcohol abuse specifically as an issue in the community that does not get the amount of attention of other substance abuse topics but may in fact be impacting a larger proportion of the population and connected to many other health issues. Multiple participants identified cultural stigma as a barrier for those who may benefit from seeking treatment. Stigma or fear may be unique and vary from population to population in the community.

"With substance abuse, it's culture and stigma. Nobody goes to substance abuse treatment on their own. They may not be adjudicated but someone is really, really pushing them, family member, boss. No one goes to treatment if they're not under duress."

A few participants described unique approaches to outreach and substance abuse treatment in the community that would support removing barriers for people having to take the first step on their own.

"For instance, it's pretty new, but there's an initiative that's called the Heroes Project that's looking at overdoses, so when an overdose happens, they're sending a team to the ER. So, it's got a peer support specialist, the EMP is involved – but they actually go in to the ER and they do an intervention there to try to help with linkage to treatment so that we can assist the patients."



#### Food as Health

#### **Key Issues:**

- · Food insecurity and limited access to healthy foods
- Diabetes and heart disease linked to socioeconomic factors
- Food deserts

#### Secondary Data

The topics of Diabetes and Heart Disease & Stroke emerged as significant health needs for Memorial Hermann Health System. Heart Disease & Stroke ranked as the second most important topic for Montgomery County. Although the topic of Diabetes did not receive a high secondary data score overall, 28.1% of the Medicare Population has diabetes in Harris County, compared to the U.S. value of 26.5%. (Table 21)

**Table 21. Secondary Data Scoring Results: Diabetes** 

|                              | County                |         |          | County Value Compared to: |       |                |              |       |
|------------------------------|-----------------------|---------|----------|---------------------------|-------|----------------|--------------|-------|
|                              |                       |         | Data     | тх                        | TX    | US             | HP           | Trend |
| Indicator                    | or I Name I Value I I |         | Counties | Value                     | Value | 2020<br>Target | Over<br>Time |       |
| 1                            | Montgomery            | 24.8    | 0.94     | 0                         | 0     | 1              | 1.5          | 2     |
| Diabetes: Medicare           |                       | percent |          |                           |       |                |              |       |
| <b>Population</b> [3] (2015) | · 1                   | 28.1    | 1.67     | 2                         | 4     | 2              | 1.5          | 4.5   |
|                              | Harris                | percent | 1.67     | 2                         | 1     |                | 1.5          | 1.5   |

[3] Centers for Medicare & Medicaid Services

As shown in Table 22 Heart Disease & Stroke is also a concerning topic in Montgomery and Harris counties. Indicators to note include Atrial Fibrillation, Hyperlipidemia and Stroke (all in the Medicare Population). In Harris County, indicators to observe are Heart Failure and Stroke (both in the Medicare Population).

Table 22. Secondary Data Scoring Results: Heart Disease & Stroke

|   |            | County          |               | County Value Compared to: |             |             |                      |                       |
|---|------------|-----------------|---------------|---------------------------|-------------|-------------|----------------------|-----------------------|
| Indicator   | Name       | Value           | Data<br>Score | TX<br>Counties            | TX<br>Value | US<br>Value | HP<br>2020<br>Target | Trend<br>Over<br>Time |
| Atrial Fibrillation:<br>Medicare Population         | Montgomery | 8.8<br>percent  | 2.44          | 3                         | 3           | 2           | 1.5                  | 2                     |
| [3] (2015)  | Harris     | 7.3<br>percent  | 1.5           | 1                         | 1           | 1           | 1.5                  | 3                     |
| Heart Failure:<br>Medicare Population<br>[3] (2015) | Montgomery | 14.6<br>percent | 1.22          | 0                         | 1           | 2           | 1.5                  | 1                     |



|                                   | Harris                                       | 16.0<br>percent | 1.89 | 1 | 2 | 3 | 1.5 | 1 |
|-----------------------------------|--|-----------------|------|---|---|---|-----|---|
| Hyperlipidemia:                   | Montgomery                                   | 46.3<br>percent | 1.94 | 2 | 2 | 2 | 1.5 | 2 |
| Medicare Population<br>[3] (2015) | Harris                                       | 43.2<br>percent | 1.44 | 1 | 1 | 1 | 1.5 | 2 |
| Hypertension:                     | Montgomery                                   | 56.0<br>percent | 1.61 | 1 | 1 | 2 | 1.5 | 2 |
| Medicare Population<br>[3] (2015) | Harris                                       | 55.5<br>percent | 1.22 | 1 | 1 | 2 | 1.5 | 1 |
| Stroke: Medicare                  | Montgomery                                   | 4.6<br>percent  | 2.28 | 2 | 2 | 3 | 1.5 | 2 |
| <b>Population</b> [3] (2015)      | Harris                                       | 5.2<br>percent  | 2.61 | 3 | 3 | 3 | 1.5 | 2 |
| [3] Centers for Medicar           | [3] Centers for Medicare & Medicaid Services |                 |      |   |   |   |     |   |

Table 23 displays nutrition-related indicators. In both Harris and Montgomery counties, SNAP Certified Stores are of concern; additional indicators of note include Food Insecurity Rate in Harris County and Grocery Store Density in Montgomery County.

**Table 23. Secondary Data Scoring Results: Nutrition** 

|  |                    | County                                  |               | County Value Compared to: |             |             |                      |                       |  |
|--|--------------------|---|---------------|---------------------------|-------------|-------------|----------------------|-----------------------|--|
| Indicator                                | Name               | Value                                   | Data<br>Score | TX<br>Counties            | TX<br>Value | US<br>Value | HP<br>2020<br>Target | Trend<br>Over<br>Time |  |
| Child Food Insecurity                    | Montgomery         | 21.2<br>percent                         | 1.17          | 0                         | 1           | 3           | 1.5                  | 0                     |  |
| Rate [5] (2016)                          | Harris             | 23.5<br>percent                         | 1.67          | 1                         | 2           | 3           | 1.5                  | 0                     |  |
| [5] Feeding America                      |                    |   |               |                           |             |             |                      |                       |  |
| Children with Low                        | Montgomery         | 5.6<br>percent                          | 1.67          | 2                         | 1.5         | 1.5         | 1.5                  | 1.5                   |  |
| Access to a Grocery<br>Store [17] (2015) | Harris             | 5.4<br>percent                          | 1.5           | 1                         | 1.5         | 1.5         | 1.5                  | 1.5                   |  |
| [17] U.S. Department o                   | f Agriculture - Fo | ood Environment Atlas                   |               |                           |             |             |                      |                       |  |
| Fast Food Restaurant                     | Montgomery         | 0.6<br>restaurants/ 1,000<br>population | 1.5           | 1                         | 1.5         | 1.5         | 1.5                  | 1.5                   |  |
| <b>Density</b> [17] (2014)               | Harris             | 0.7<br>restaurants/ 1,000<br>population | 1.67          | 2                         | 1.5         | 1.5         | 1.5                  | 1.5                   |  |



| [17] U.S. Department o     | f Agriculture - Fo | ood Environment Atlas              |      |   |     |     |     |     |
|----------------------------|--------------------|------------------------------------|------|---|-----|-----|-----|-----|
| Food Insecurity Rate       | Montgomery         | 14.6<br>percent                    | 1.33 | 1 | 1   | 3   | 1.5 | 0   |
| [5] (2016)                 | Harris             | 16.6<br>percent                    | 2.06 | 2 | 2   | 3   | 1.5 | 1   |
| [5] Feeding America        |                    |                                    |      |   |     |     |     |     |
| Grocery Store              | Montgomery         | 0.1<br>stores/ 1,000<br>population | 1.83 | 2 | 1.5 | 1.5 | 1.5 | 1.5 |
| <b>Density</b> [17] (2014) | Harris             | 0.2<br>stores/ 1,000<br>population | 1.5  | 1 | 1.5 | 1.5 | 1.5 | 1.5 |
| [17] U.S. Department o     | f Agriculture - Fo | ood Environment Atlas              |      |   |     |     |     |     |
| SNAP Certified Stores      | Montgomery         | 0.5<br>stores/ 1,000<br>population | 1.89 | 3 | 1.5 | 1.5 | 1.5 | 1   |
| [17] (2016)                | Harris             | 0.6<br>stores/ 1,000<br>population | 2.11 | 3 | 1.5 | 1.5 | 1.5 | 2   |
| [17] U.S. Department o     | f Agriculture - Fo | ood Environment Atlas              |      |   |     |     |     |     |

### Primary Data

Food-related topics emerged in the community input gathered through the survey and key informant interviews. Food Insecurity, Food Programs and Food Knowledge issues were discussed over 170 times during the key informant interviews and were raised by participants 34 times in relation to barriers or challenges to achieving health in the community. The primary themes related to barriers or challenges that emerged in the interviews were access to healthy foods and affordability, knowledge gaps and limited food familiarity and program limitations.

The most common issue raised by key informant participants related to food insecurity was community members not being able to access healthy foods in their community. Multiple participants believed that in many communities, healthy food options were not available to people within a five-mile radius from their home or work. Participants described 'food deserts' as a top issue affecting health in the community and how limited access to healthy foods also was closely associated with people also being not being able to afford healthy foods.

"We have a really large county. (...) The west doesn't cater to the east very easily and vice versa. (...)

Once you get off of that interstate, you start getting into the east county and west county you'll go miles and miles and miles without grocery stores, so there are food deserts in our community."

Participants also discussed the imbalance of healthy food options for those communities with lower housing prices and in general, lower average incomes. One participant described the link



between people having to work multiple jobs and having time to shop for and prepare healthy foods.

"We have a grocery store on every corner but not every corner in the poor neighborhoods. It's been my personal experience that eating healthy is expensive. It costs more money to buy healthy fruits and vegetables and more healthy food, in general than it does to buy food that's not so healthy, that's high fat, high carb, high sugar.... It costs more money. It takes longer to prepare. When you have a mom and a dad or either and they're trying to handle two jobs, if not three. They've got kids of varying ages. The mechanics of shopping and preparing meals is probably an activity that gets let go."

Some participants had direct experience with educating the community about healthy foods and eating. These participants shared that some community members have limited knowledge of fresh fruits and vegetables and would benefit from early education for parents and children in schools.

"And there are places which we are really concerned about, (...) east of I45 where there's this food insecurity, food desert, and all other problems that are happening, and we're seeing increasing incidence of child obesity in those areas, and those zip codes. So definitely education is the key. It starts from probably prenatal care of mom, and it goes on to school."

In Memorial Hermann's community survey, 67% of respondents selected Diabetes as one of the top issues most affecting the quality of life in their community. During key informant interviews, Diabetes was discussed 64 times and was raised by participants 32 times as a health need or concern in the community. For those participants who raised Diabetes as a top health issue in the community, unique themes emerged regarding how diabetes is impacting specific groups in the community and the way a sedentary lifestyle impacts diabetes. Multiple participants attributed the surge in obesity and diabetes in general in the U.S. to a shift to a more sedentary lifestyle while others specifically identified the local climate and driving culture as key factors leading to an increase in sedentary lifestyles impacting the region.

Heart Disease & Stroke was discussed 34 times during the key informant interviews and was raised by participants 16 times as a health need or concern in the community. For those participants who raised Heart Disease & Stroke as a top health issue in the community, the unique themes that emerged in the interviews were chronic disease risk related to socioeconomic status and challenges with managing heart-related conditions.

"You have so many communities that are food deserts so, of course, I think we are all at risk for things like diabetes and hypertension, obesity, stroke – but, I think in addition to that, those that are most are already marginalized. People who are low income. Low socioeconomic status. So, education, and all of those indicators are probably even more at risk for chronic diseases than someone, for example, who has access to care and insurance. So, they probably are doubly at risk."



#### Exercise Is Medicine

#### **Key Issues:**

- · Obesity and convenience of fast food
- Walkability of communities
- Safety of outdoor spaces and places to exercise

## Secondary Data

Exercise, Nutrition & Weight was the fifth highest-ranking topic in the secondary data scoring results for Memorial Hermann Health System. It received the same topic ranking in Montgomery County and, although it did not rank as high in the secondary data scoring results for Harris County, there are indicators to note.

Table 24 displays indicators of concern, with several scores equal to or above 1.75. An exercise-related indicator of concern is: Workers Who Walk to Work (with an indicator score of 2.78 in Montgomery County and 2.17 in Harris County).

Table 24. Secondary Data Scoring Results: Exercise, Nutrition & Weight

|  |                       | County                                  |               | County Value Compared to: |             |             |                      |                       |  |
|--|-----------------------|---|---------------|---------------------------|-------------|-------------|----------------------|-----------------------|--|
| Indicator                                | Name                  | Value                                   | Data<br>Score | TX<br>Counties            | TX<br>Value | US<br>Value | HP<br>2020<br>Target | Trend<br>Over<br>Time |  |
| Adults (18+ Years)                       | Montgomery            |   |               |                           |             |             |                      |                       |  |
| Who Are Obese [10]<br>(2016)             | Harris                | 32.0<br>percent                         | 1.67          | 1.5                       | 1           | 2           | 2                    | 2                     |  |
| [10] Texas Behavioral R                  | isk Factor Surve      | illance System                          |               |                           |             |             |                      |                       |  |
| Child Food Insecurity                    | Child Food Insecurity | 21.2<br>percent                         | 1.17          | 0                         | 1           | 3           | 1.5                  | 0                     |  |
| <b>Rate</b> [5] (2016)                   | Harris                | 23.5<br>percent                         | 1.67          | 1                         | 2           | 3           | 1.5                  | 0                     |  |
| [5] Feeding America                      |                       |   |               |                           |             |             |                      |                       |  |
| Children with Low                        | Montgomery            | 5.6<br>percent                          | 1.67          | 2                         | 1.5         | 1.5         | 1.5                  | 1.5                   |  |
| Access to a Grocery<br>Store [17] (2015) | Harris                | 5.4<br>percent                          | 1.5           | 1                         | 1.5         | 1.5         | 1.5                  | 1.5                   |  |
| [17] U.S. Department o                   | f Agriculture - Fo    | ood Environment Atlas                   |               |                           |             |             |                      |                       |  |
| Fast Food Restaurant                     | Montgomery            | 0.6<br>restaurants/ 1,000<br>population | 1.5           | 1                         | 1.5         | 1.5         | 1.5                  | 1.5                   |  |
| <b>Density</b> [17] (2014)               | Harris                | 0.7<br>restaurants/ 1,000<br>population | 1.67          | 2                         | 1.5         | 1.5         | 1.5                  | 1.5                   |  |



| [17] U.S. Department o                 | f Agriculture - Fo | ood Environment Atlas    |      |   |     |     |     |     |
|--|--------------------|--------------------------|------|---|-----|-----|-----|-----|
|  | Montgomery         | 14.6                     | 1.33 | 1 | 1   | 3   | 1.5 | 0   |
| Food Insecurity Rate                   | Wiontgomery        | percent                  | 1.55 | _ | 1   | ,   | 1.5 | J   |
| [5] (2016)                             | Harris             | 16.6                     | 2.06 | 2 | 2   | 3   | 1.5 | 1   |
|  | 1101113            | percent                  |      | _ | _   |     | 2.0 | -   |
| [5] Feeding America                    |                    |                          |      |   |     |     |     |     |
|  |                    | 0.1                      |      |   |     |     |     |     |
| Grocery Store                          | Montgomery         | stores/ 1,000            | 1.83 | 2 | 1.5 | 1.5 | 1.5 | 1.5 |
| <b>Density</b> [17] (2014)             |                    | population<br>0.2        |      |   |     |     |     |     |
|  | Harris             | stores/ 1,000            | 1.5  | 1 | 1.5 | 1.5 | 1.5 | 1.5 |
|  |                    | population               |      |   |     |     |     |     |
| [17] U.S. Department o                 | f Agriculture - Fo | ood Environment Atlas    |      |   |     |     |     |     |
|  |                    | 0.5                      |      |   |     |     |     |     |
| SNAP Certified Stores                  | Montgomery         | stores/ 1,000 population | 1.89 | 3 | 1.5 | 1.5 | 1.5 | 1   |
| [17] (2016)                            |                    | 0.6                      |      |   |     |     |     |     |
|  | Harris             | stores/ 1,000 population | 2.11 | 3 | 1.5 | 1.5 | 1.5 | 2   |
| [17] U.S. Department o                 | f Agriculture - Fo | ood Environment Atlas    |      |   |     |     |     |     |
|  | Montgomon          | 1.0                      | 2.78 | 3 | 3   | 3   | 3   | 2   |
| Workers who Walk<br>to Work [1] (2012- | Montgomery         | percent                  | 2./8 | 3 | 3   | 3   | 3   | Z   |
| 2016)                                  | Harris             | 1.5                      | 2.17 | 2 | 2   | 3   | 3   | 1.5 |
| ,                                      | Патть              | percent                  | 2.1/ | 2 | 2   | 5   | 3   | 1.5 |
| [1] American Communi                   | ty Survey          |                          |      |   |     |     |     |     |

## Primary Data

Over 60% of Memorial Hermann's community survey respondents noted Obesity as a top issue affecting the quality of life in their community. In key informant interviews, Exercise, Nutrition & Weight was discussed almost 170 times and was raised by participants 42 times as a need or concern for achieving health in the community. The primary barriers related to Exercise, Nutrition & Weight identified by participants were walkability, access to safe outdoor spaces, programming that may not meet the needs of communities facing financial limitations, and the convenience of unhealthy foods.

Several participants discussed barriers to healthy lifestyle changes and described communities where sidewalks are limited or pedestrian pathways are not available. The ability for community members to make small shifts in their daily lives, such as walking regularly, may be more feasible than undertaking an exercise regimen. The limitations of pedestrian pathways and safer walking spaces prevent those in some sections of the community from making these shifts.



For individuals who may not be able to afford gym memberships nor attend classes due to work schedules, outdoor activities and fitness areas offer a free alternative. Participants felt that in many neighborhoods, these outdoor spaces are not available due to disrepair or unsafe environments.

"I think the built environment is huge, too. If you live out in a planned community, they usually have walking trails, or they have a pretty fountain area for you to walk around it. They have those little exercise things that you stop on part way around the trail and you do your little push-ups and your situps and your pull-ups (...) You go into these poorer areas and there's no sidewalks. There's no lights at night. There's a park—it's all rusted equipment."

Participants also described programs and facilities that are either limited or lacking. These programs included free exercise programs with child care options, youth sports leagues and recess in the schools and free or low-cost options for air-conditioned facilities during times of the year when the weather does not permit outdoor activities.

Another challenge that several participants raised is the convenience and low cost of unhealthy foods. For families that may have financial or time limitations, the convenience of inexpensive, less healthy foods is difficult to contend against.

"We have the big chain grocery stores here in the community, but a lot of times, because our population is limited with funds, the bad foods are the ones that are the cheapest and most accessible, so they go in and buy the cheapest/fastest thing they can get."



## Non-Prioritized Significant Health Needs

The following additional significant health needs emerged from a review of the primary and secondary data. With the need to focus on the prioritized health needs described above, these topics are not specifically prioritized efforts in the 2019-2022 Implementation Strategy. However, due to the interrelationships of social determinant needs many of these areas fall, tangentially, within the prioritized health needs and will be addressed through the upstream efforts of the prioritized health needs. Additionally, many of them are addressed within ongoing programs and services. Examples of these efforts are provided below by topic area.

## Older Adults and Aging

### Secondary Data

Older Adults and Aging was a topic of concern for Harris and Montgomery counties, with a topic score of 1.5 for Harris County's secondary data results and as the eighth highest-ranking topic in Montgomery County. In both counties, Stroke in the Medicare Population is an indicator to be aware of. In Harris County, additional indicators scoring above 2 include Chronic Kidney Disease in the Medicare Population as well the Age-Adjusted Death Rate due to Falls. In Montgomery County, Atrial Fibrillation in the Medicare Population is an indicator with score above 2.

#### Primary Data

Key informants and stakeholders discussed Older Adults and Aging. Over 62% of participants in Memorial Hermann Health System's prioritization process cited Older Adults as one of the groups most affected by poor health outcomes. Interviews with key informants noted the growing population of older adults and needs related to specialized care, financial assistance and outreach.

"...[W]e are going to watch the literal doubling of the number of Americans over the age of 65 in the next 25 years. Every day, between now and 2030, day after day, 10,000 Americans will turn 65, so we are watching an extraordinary expansion of challenges of aging. (...) [M]ore and more Americans are going to be getting old, so caring for this massive increase in the aging population is going to be one of the great challenges I think."

#### **Efforts**

Memorial Hermann Health System includes two freestanding Rehabilitation Hospitals (TIRR and Katy) as well as a senior living facility (University Place), featuring independent living, personal assistance services, and a separate, but attached, nursing center.

Additional community outreach includes health education on: Alzheimer's disease, Discounted Diabetes Education, Education/outreach for Seniors, Injury Prevention, Fall Prevention, and support groups for various populations, including: Alzheimer's, Amputees, Cardiac patients, Chronic disease, Diabetics, Grief, Parkinson's disease, Stroke, Survivorship, and more.



#### Cancers

### Secondary Data

Cancer was not a top topic for Harris and Montgomery counties' secondary data results. However, there are a couple of indicators to note in Harris County (with scores above 2): Cervical Cancer Incidence Rate and Age-Adjusted Death Rate due to Breast Cancer.

## Primary Data

In Memorial Hermann's community survey, over one third of respondents noted Cancer as a top issue affecting the quality of life in their community. Interviews with key informants revealed the importance of making cancer screening services and specialty care available and accessible (e.g., telehealth, mobile mammography).

#### **Efforts**

As leading providers of cancer treatment in Houston, Memorial Hermann Cancer Centers are committed to cancer treatment, prevention, and research. Their broad geographical coverage makes cancer treatment extremely accessible and convenient to where patients live or work. All eight Memorial Hermann Cancer Centers are approved by the American College of Surgeons Commission on Cancer (ACoS CoC); only 25 percent of hospitals across the country have received this special recognition. With guaranteed access to comprehensive care, collaborative team approach for coordinating the best available treatment options, state-of-the-art equipment and services, education and support, and lifelong patient follow-up through the Cancer Registry, patients are able to access a full menu of therapies and treatment options.

Additional outreach includes education and support groups for cancer patients: Art, Self-guided Art Therapy, Lymphedema, Brest Cancer, Oncology Nutrition Therapy, Stress Relief, Look Good Feel Better, Yoga, Meditation, and Healthy Eating Advices.

#### Education

#### Secondary Data

Education received a topic score of 1.56 in the secondary data scoring for Harris County. There are several education-related indicators to consider in Harris County: Infants Born to Mothers with Less Than 12 Years of Education (with a value of 27.5% in Harris County, compared to 21.3% in Texas and 15.9% in the U.S.), Student-to-Teacher Ratio, High School Drop Out Rate, and People 25+ with a High School Degree or Higher.

### Primary Data

During key informant interviews, the topic of Education came up frequently and in relation to different focus areas and target audiences, including children, general community members as well as providers. The link between individuals' level of education and quality of life was emphasized. Key informants recommended finding opportunities to expand the availability of education (related to health and non-health topics) as well as integrating health education into existing activities in both clinical and non-clinical settings, such as schools and churches. Opportunities were also pointed out to educate healthcare providers (and provide continuing



education) on available community linkages and resources and on how to initiate conversations with patients regarding different health topics.

"I think it comes down to education because probably 75% of our diagnosed diabetes are type 2 diabetes, and that is something that with proper diet, proper exercise, and education that many patients can overcome, and so we have worked, and we continue to provide (...) the proper education."

"We want to go into different groups and educate them on what they should be doing or shouldn't be doing. (...) I think education is a huge component but we've got to figure out how to integrate that. The education, without the integration into somebody's lifestyle, doesn't do them any good."

#### **Efforts**

Memorial Hermann operates ten Health Centers for Schools, established in 1996, offering access to primary medical, dental and mental health services to underserved children at 82 schools in the Greater Houston Area. Research shows that school-based health centers increase educational success by providing medical and mental health care that allows students to stay in school and learn. The primary goal of the program is to keep children healthy and feeling well so that they stay in school and can perform well academically, creating a foundation for a brighter future. By providing improved access to health care to at-risk children across the region, Memorial Hermann has demonstrated success in creating healthier outcomes for kids, including improvements in their physical health, their mental wellbeing, and even their attendance rate at school.

## Transportation

#### Secondary Data

For Harris and Montgomery counties, Transportation rose to the top of the secondary data scoring results, with a topic score of 1.82 in Harris County and 1.93 in Montgomery County. In both counties, indicators of concern include: Solo Drivers with a Long Commute, Mean Travel Time to Work, and Workers who Walk to Work. In addition to these, another indicator to note for Montgomery County is Workers who Drive Alone to Work. Furthermore, there exist high disparities for a few of these indicators.

#### Primary Data

Participants raised the topic of Transportation 59 times in relation to barriers or challenges to achieving health in the community – more than any other topic. Key informants repeatedly noted that the Houston region has significant transportation issues (including availability, accessibility) that impact community members' ability to access health programs and services. In addition to limited options for public transportation, travel cost and time were brought up. Moreover, for certain populations, like older adults or people with disabilities, public transportation is not a feasible option.

"This remarkable spread-out city, the size of Massachusetts, is the Greater Houston Metropolitan Area. (...) This is not a city and a suburb anymore, it's a metropolitan region with eight to ten centers of activity that are larger than downtown San Diego, spread out over this massive area, but getting from one place to another is an increasing challenge. Poverty also means inadequate transportation, we have no really



good transit system because it's almost impossible to develop a good transit system for a city so lacking in density and so spread out as Houston is. We haven't solved that problem, and a lot of the healthcare issues come because people [are] without a car trying to get to a hospital, or to healthcare..."

"Houston is really spread out (...) and it can go from city to rural very quickly. The families in the rural communities that really are within a 20-mile radius of the city, so really still within the Houston address, I think that transportation for them is a huge barrier. That's a tough one, because Houston is so big, and it can go quickly to rural, very quickly, and your zip code is still reflecting Houston."

#### **Efforts**

Memorial Hermann provides bus and taxi tokens as required for discharge and continuity of care needs.

One Memorial Hermann strategic effort to not only provide the right care at the right time in the right place, but also provide the opportunity to access help/care via the telephone is the Memorial Hermann Nurse Health Line. Established in 2014, the Nurse Health Line is a free telephone service for Greater Houston residents who are experiencing a health concern and are unsure of what to do or where to go. Experienced, bilingual nurses use their training and expertise to conduct assessments by phone, and are available to answer calls 24 hours a day, seven day a week for any resident living in Harris or surrounding counties. They help callers decide when and where to go for medical care and assist with social service referrals and transportation needs.

### Children's Health

## Secondary Data

In the secondary data results, Children's Health received a topic score of 1.52 in Harris County. Harris County has several indicators to note including: Child Food Insecurity Rate, Children with Health Insurance and Children with Low Access to a Grocery Store. Close to 10% of children in Harris County do not have health insurance.

#### Primary Data

When discussing Children's Health, key informants pointed out specific issues such as childhood obesity, immunization, access to services and being uninsured. Some participants advised efforts to engage children, families and communities more comprehensively.

"A lot of people wont go to a FQHC to get their kid immunized because it's a huge doctor visit that requires a lot of paperwork and time/effort."

"Texas ranks very low in dollars spent on health for children. We rank low in our ranking, generally, in children's health. We're not putting enough money and resources into it. I think we need to shift our attention and (...) give more attention to children's health and how important it is for early childhood development and for brain development and ongoing health in the rest of their lives. I would say put that as a priority. Put children's health as a priority. Not just saying the early years, not just saying zero to five but also throughout early adolescence, pre-adolescence, early adolescence and into the teens."



#### **Efforts**

Children's Memorial Hermann Hospital, licensed under Memorial Hermann Texas Medical Center, was founded in 1986 and is the primary teaching hospital for the pediatric and obstetrics/gynecology programs at The University of Texas Medical School at Houston. Children's Memorial Hermann offers care in more than thirty pediatric and women's related specialties including the latest advances in maternal-fetal medicine and neonatal critical care services, and renowned programs in pediatric trauma, neurosciences, pulmonology and cardiac care. More than 37,000 children come to Children's Memorial Hermann Hospital each year. In addition to Memorial Hermann's school-based health efforts described above, Memorial Hermann is an on-going financial collaborator with Children at Risk, a 501 non-profit organization that drives change for children through research, education, and influencing public policy.

### Economy

## Secondary Data

In the secondary data scoring results, Economy received a topic score of 1.55 in Harris County. Harris County has eight economic indicators with scores above 2: Homeownership, Severe Housing Problems, Students Eligible for the Free Lunch Program, Median Monthly Owner Costs for Households without a Mortgage, SNAP Certified Stores, Median Household Gross Rent, Families Living Below Poverty Level, and Food Insecurity Rate.

### Primary Data

Key informants discussed food insecurity and food deserts as factors related to poor health outcomes. They pointed out that, although individuals might understand that eating healthy foods is recommended, they may not have access to grocery stores or be able to afford healthier food options. Key informants noted the importance of addressing socioeconomic barriers to improve health and wellbeing.

"I think in some of the lower income neighborhoods, the options for buying food are limited and do not offer a lot of healthy choices, and that a lot of time healthier food costs more. And so the ability to easily get and afford healthy food, whether you're eating at home or eating out, are just more limited for some people and in some neighborhoods..."

#### **Efforts**

It's a daunting task in a region like Greater Houston, which has an estimated 7 million people and one of the highest rates of uninsured and underinsured in the country. But Memorial Hermann believes that we can ONLY impact the health of our community, and the health of individuals, by focusing on the multiple determinants of health that play the greatest role in influencing a person's overall health and wellbeing.



## Other Findings

Critical components in assessing the needs of a community are identifying barriers and disparities in health care. The identification of barriers and disparities helps inform and focus strategies for addressing prioritized health needs. The following section outlines barriers across Memorial Hermann Health System and disparities as they pertain to MH The Woodlands' service area.

#### Barriers to Care

Community input revealed a wide range of barriers to care and wellbeing. As discussed in the previous section, transportation was the most frequently cited barrier in the community, followed by other barriers such as access to health services, healthy food and exercise options, low income, and food insecurity. Overall, the secondary and primary data confirmed that socioeconomic factors impact community members' ability to achieve good health.

"Many things come back to poverty and lack of disposable income."

Key informants described the influence of social determinants of health (including income, poverty, language, education, employment) on health outcomes. Participants discussed the importance of addressing social and economic factors to get at the root causes of poor health and wellbeing.

"I think you have to understand that a lot of folks work from paycheck to paycheck, so if they actually end up at one of these medical centers and they require a thirty dollar copay or ten dollars or fifteen dollars, then they're not going to have it. So, they're going to walk away until they do have that money and that could be months later. So, if they are sick, they're just going to become sicker. So, that's one of the big barriers."

## Disparities

Significant community health disparities are assessed in both the primary and secondary data collection processes. Table 25 identifies the number of secondary data health indicators with a health disparity for MH The Woodlands' service area. See Appendix B for the specific indicators with significant disparities.

Table 25. Number of Health Disparities Identified in Secondary Data Analysis

| Harris County                    | Montgomery County             |
|----------------------------------|-------------------------------|
| Black or African American (13)   | Other Race (8)                |
| White (8)                        | Black or African American (6) |
| Hispanic or Latino (8)           | Hispanic or Latino (6)        |
| Other Race (7)                   | American Indian or Alaska     |
| American Indian or Alaska Native | Native (3)                    |
| (6)                              | Two or More Races (3)         |
| Male (10)                        | Male (5)                      |
| Female (3)                       |                               |
| 65+ years of age (2)             | <6 years of age (1)           |
|                                  | 65+ years of age (1)          |



Geographic disparities were identified using the SocioNeeds Index. As shown previously in Table 13, most of the zip codes within MH The Woodlands' service area with the highest SocioNeeds Index values are within Montgomery County; zip codes 77301 and 77303 both have values greater than 80.



## Conclusion

The Community Health Needs Assessment for MH The Woodlands utilized a comprehensive set of secondary data indicators to measure the health and quality of life needs for MH The Woodlands' service area. Furthermore, this assessment was informed by input from knowledgeable and diverse individuals representing the broad interests of the community. Memorial Hermann's system-wide prioritization process resulted in four focus areas or pillars: Access to Healthcare, Emotional Well-Being, Food as Health, and Exercise Is Medicine. MH The Woodlands will review these priorities more closely during the Implementation Strategy development process and design a plan for addressing these pillars moving forward.

In addition, MH The Woodlands invites your feedback on this CHNA report to help inform the next Community Health Needs Assessment process. If you have any feedback or remarks, please send them to: Deborah.Ganelin@memorialhermann.org.



**Appendix** 

Appendix A: Evaluation Since Prior CHNA

Appendix B. Secondary Data Methodology

Secondary Data Sources

Secondary Data Scoring

Data Scoring Results

Appendix C. Primary Data Methodology

Community Input Participants

Key Informant Interview Questionnaire (Episcopal Health Foundation)

Key Informant Interview Questionnaire (Conduent Healthy Communities Institute)

Community Survey (English)

Community Survey (Spanish)

Appendix D. Prioritization Tool

Prioritization Survey

Appendix E. Community Resources



# **Appendix A. MH The Woodlands Impact Report**

## **Evaluation Since Prior CHNA**

**Priority 1: Healthy Living** 

Goal 1: Promote healthy living and provide resources to encourage the community to be proactive in their overall health.

## **Early Detection and Screening**

Objective 1.1: Increase screening to promote early detection and reduce advanced stages of diseases

| Outcome Indicators:   | Annual<br>Baseline                                   | Year 1                           | Year 2   | FY 2020 Target  |  |
|---|--|----------------------------------|--|---|--|
| <ul> <li>Number of participants in<br/>screenings (e.g. skin cancer and<br/>mammograms.)</li> </ul>   | Skin 40<br>Mammogram<br>300                          | Skin Cancer 53<br>Mammograms 314 | Skin Cancer 25<br>Mammograms<br>311                                | Skin 45<br>Mammogram 315                              |  |
| Number of low dose CT scans at a<br>reduced cost to catch lung cancer<br>earlier  | 0 (new<br>program)<br>Establish<br>baseline in<br>Y1 | 63 Lung CT Scans                 | 84 Lung CT<br>Scans  | Low Dose Lung CTs 70                                  |  |
| <ul> <li>Number of educational<br/>talks/events, such as health fairs<br/>(handouts with preventative<br/>information); number of attendees<br/>(See also 1.2, 1.3, 1.4)</li> </ul> | Events: 40<br>annually<br>Attendees:<br>500          | Events: 29<br>Attendees: 1,635   | Events: 25<br>(6 health fairs,<br>19 talks)<br>Attendees:<br>3,339 | Events: 40 (annually)<br>Attendees: 580 (5% annually) |  |
| • Number of Support Groups,<br>number of attendees (See also 1.2,<br>1.3, 1.4)  | 14 Groups<br>220<br>Attendees                        | Events: 16<br>Attendees: 3,920   | Groups: 26<br>Attendees:<br>2,785                                  | 14 Groups<br>254 Attendees (5% annually)              |  |
| Strategies:   |  | Year 1 Notes                     | Year 2 Notes   | Timeline:<br>Year 1,2,3                               |  |
| 1.1.1: Provide education/awareness health talks at area schools and/or local businesses (See 1.2.3, 1.3.5, 1.4.5, 1.5.1)  |  |                                  |  | 1, 2, 3   |  |

| 1.1.2: | Provide free screening mammograms and breast ultrasounds as needed for Interfaith Community Clinic patients and under/uninsured patients of private physicians   | 47 breast ultrasounds performed for underserved women   | 67 breast ultrasounds performed for underserved women   | 1, 2, 3 |  |
|--------|--|---|---|---------|--|
| 1.1.3: | Provide free annual screenings for skin<br>cancer during an annual event   | 53 screened for skin cancer; 26 referred for a biopsy and 12 Basal Cell Carinomas and 3 Melanomas diagnosed   | 25 screened for skin cancer; 6 referred for a biopsy and 1 Squamous Cell Carinoma diagnosed.  | 1, 2, 3 |  |
| 1.1.4: | Conduct low dose CT scans for older adults to diagnose lung cancer at earlier stages to prevent Stage 3 & 4 cancer at a reduced cost (communicate to PCPs via their support paperwork for these patients to make them aware of this service) | 63 screened; 65% had another significant finding leading to follow-up with specialist (e.g. emphasema)  | 84 people<br>screened   | 1, 2, 3 |  |
|        | Events log maint     Mammogram sc      Potential Partners:   | nt experience surveys ained by Marketing Manager, Oncology Nurse Navig reenings tracked by Outpatient Imaging  panies/employers (health fairs, talks, screenings) alth fairs, talks, screenings) nizations that work with low income patients (e.g. T | erience surveys by Marketing Manager, Oncology Nurse Navigator, and Imaging Directors. by tracked by Outpatient Imaging  (employers (health fairs, talks, screenings) |         |  |

| Outcome Indicators:  | Annual Baseline  | Year 1  | Year 2   | FY 2020 Target  |
|--|--|---|--|---|
| Number of educational talks/events, such as health fairs (handouts with preventative information); number of attendees (See also 1.2, 1.3, 1.4)      Events: 40 annually Attendees: 500  |  | 28 annually<br>Attendees 4,000                                | Events: 25<br>(6 health fairs,<br>19 talks)<br>Attendees:<br>3,339   | Events: 32 (annually)<br>Attendees: 4,200 (5% annually) |
| Number of Support<br>Groups, number of<br>attendees (See 1.1)  | See 1.1  | 4 groups<br>Attendees: 700                                    | 3 groups<br>Attendees:<br>740  | 5 groups<br>Attendees: 800                              |
| <ul> <li>Number of exercise<br/>classes, food<br/>demonstrations and<br/>healthy food education for<br/>cancer survivors and family</li> </ul>   | Establish baseline in<br>Y1  | 8 Events<br>Attendees: 1,000                                  | 10 events Attendees: 1,389   | 10 Events<br>Attendees: 1,200                           |
| Strategies:  |  | Year 1 Notes  | Year 2 Notes   | Timeline:<br>Year 1,2,3                                 |
| loss and for condition   | oort groups for weight<br>ns where obesity plays<br>rt disease, and stroke | 4 groups  | 3 groups   | 1, 2, 3   |
| 1.2.2: Provide facilities on-campus for Canopy program to conduct exercise classes to cancer survivors and their caregivers (e.g., yoga, ballroom dancing, line dancing, guided meditation, tai chi) (See 1.4.2) and free food demonstrations and education about healthy food options for cancer survivors and families via nutritionists and dietary staff (See 1.3.1) |  | Demo kitchen, flexible space for fitness activities or events | Demo kitchen, flexible space for fitness activities or events; have expanded these to include children of a cancer survivor too. | 1, 2, 3   |

| Priority | 1: HEALTHY LIVING  |  |  |                 |
|----------|--|--|--|-----------------|
| Goal 1:  | Promote healthy living and provide re  | sources to encourage the community to b  | oe proactive in their o  | overall health. |
| 1.2.3:   | Provide education/awareness health talks at area schools and/or local businesses | Health fair screenings: BMI, nutritionist, diabetes info, heart info, blood pressure and/or stroke risk assessments  | Health fair screenings: BMI, nutritionist, diabetes info, heart info, blood pressure and/or stroke risk assessments – trauma is also educating the public on balance and strength. | 1, 2, 3         |
|          | Events log maintal     Canopy programs   | ion Approach: t experience surveys ined by Marketing Manager & Occupational Medici maintained by Canopy Coordinator  | ine Liaison  |                 |
|          | <ul><li>Area schools (heal</li><li>Community organ</li></ul>                     | anies/employers (health fairs, talks, screenings)<br>th fairs, talks, screenings)<br>izations that work with low income patients (e.g. Ir<br>o give talks, be at health fairs, and/or promote free | •  |                 |

| Access to Healthy Food Objective 1.3: Increase education about healthy foods to improve access and awareness  |   |  |   |   |
|---|---|--|---|---|
|   |   |  |   |   |
| Pounds of food donated to<br>local food pantries  | 14,000 lbs.   | Donated 2,471lbs and \$4,531 in cash donated; this translates to 25, 126lbs of food  | Memorial<br>Hermann food<br>drive<br>discontinued   | 16,300 lbs. total (5% annually)                       |
| <ul> <li>Number of Farmer's<br/>Markets held (number of<br/>participant transactions)</li> </ul>  | 5 sessions<br>\$1,750 in<br>sales on<br>avg<br>/session | 5 events, \$1,750 avg/session – 8/16 \$1,400 in sales; 9/16 \$2,100; 10/16 \$1,700; 3/17 \$1,900; and 4/17 \$1,800   | 5 sessions<br>May 31, April 5,<br>Nov. 17, Oct.<br>26, Sept. 27   | Sessions: 3 total<br>Sales of \$2,000/session         |
| Number of food<br>demonstrations and<br>healthy food education for<br>cancer survivors and<br>family  | 8 evemts<br>Attendees:<br>637                           | 8 events, 637 attendees – cooking demos 70 attendess; Oncology nutrition 117, Cooking together (kids) 60; Special Functions with healthy foods (end of year survivor events 120, Breast Friends Christmas party 130, Valentine's Tea 42, Cinco de Mayo Fiesta 98 | 41 total events 489 attendees  • Eating Well Thru Cancer  • Cooking Demos  • Oncology Nutrition  • Cooking Together  • Val Tea  • Cinco de Mayo Christmas | 10 events<br>Attendees 800                            |
| <ul> <li>Number of educational<br/>talks/events, such as<br/>health fairs (handouts with<br/>preventative information);<br/>number of attendees (See<br/>also 1.2, 1.3, 1.4)</li> </ul> | Events: 40<br>annually<br>Attendees:<br>500             |  | X reference to 1.2.1.   | Events: 40 (annually)<br>Attendees: 580 (5% annually) |
| Number of Support<br>Groups, number of<br>attendees (See 1.1)   | See 1.1   |  | X reference to 1.1.1  | See 1.1   |
| Number of attendees at<br>weekly breastfeeding<br>support group   | 26 weekly   |  | 34  | 26 weekly   |

| Strategie | es:  | Year 1 Notes   | Year 2 Notes   | Timeline<br>Year 1,2,3 |
|-----------|--|--|--|------------------------|
| 1.3.1:    | Nutritionists and dietary staff provide free food demonstrations and education about healthy food options for cancer survivors and                         | Canopy cancer survivorship center has a demo kitchen, flexible space for fitness activities or events.  At Canopy, supplies and food are paid for using Foundation monies; this is why there are no charges in those areas | Canopy cancer survivorship center has a demo kitchen, flexible space for fitness activities or events.  At Canopy, supplies and food are paid for using Foundation monies; this is why there are no charges in those areas   | 1, 2, 3                |
|           | families via the<br>program at Canopy<br>(See strategy 1.2.2)  |  |  |                        |
| 1.3.2:    | Collect food to support food pantries or special events hosted by community partners such as the Montgomery County Food Bank and/or Interfaith Food Pantry | Donated to the Interfaith Food Bank – we broke a 6-yr record in FY17!  | No food drive in FY18.   | 1, 2, 3                |
| 1.3.3:    | Offer Farmer's Markets on- campus for staff, patients, patient families, and community members   | Held in the Healing Garden at the Campus and once in the Cafeteria due to rain.  | Held in the Healing Garden at the Campus and once in the Cafeteria due to rain. There was an attempt to extend the farmer's market in part by setting up produce bins in the Cafeteria. This was not overly successful, and also our cafeteria is very small and crowded and lines can be long.  No financial sales data received for FY18 by deadline | 2, 3                   |

| P | riority | <i>i</i> 1: | HEALTHY LIVING   |
|---|---------|-------------|------------------|
|   |         |             | IILALIIII LIVIIV |

### Goal 1: Promote healthy living and provide resources to encourage the community to be proactive in their overall health.

1.3.4 Provide
education/awaren
ess health talks at
area schools
and/or local
businesses (See
strategy 1.1.1)

#### TOTALS FY17: eonle served / 15 (

# 943 people served / 15 events TOTALS: 604 attendees / 13 events

-Halliburton Series: Navigating Nutrition Labels (9/1/16, 46, 2 s hr)
-Huntsman Corp. Talks (2-3 locations rotating): Diabetes Preventions (Plant Site, 7/26, 32, 2 v hr, 1 s hr); Diabetes Prevention(9/2, 81, 2 v hr, 1 s hr); Stress Mgt. (Plant Site, 11/1, 29, 2 s hr); Stress Mgt. (2/24/17, 84, 2 s hr); Diabetes (3/15, 45, 2 v hr, 1 s hr); Cholesterol Mgt (Plant Site, 3/28, 38, 2 v hr, 1 s hr); Colorectal Cancer (6/14, 35, 2 v hr, 1 s hr).

-Strike Corp. Talks: Diabetes (8/2/16, **37**, 2 v hr, 1 s hr); Men's Health (9/6, **48**, 6 v hr, 2 s hr); Women's Health (10/4, **35**, 6 v hr, 2 s hr); Heart Health & Cholesterol Baby Fair: 200 attendees (free event and included in Priority 1); MHTW has 9 lactation consultants and one is present for support groups Donation to Meals on Wheels, plus staff working on distribution and sharing

into on preventing slips, trips and falls (major cause of trauma).

(11/1, **54**, 2 v hr, 1 s hr); Nutrition Trends & Fads (12/6, **40**, 3 s hr)

**Meals on Wheels:** Bronze Sponsor of Miles for Meals \$1,000 contribution *Helps feed 139 seniors a meal.* 

10<sup>th</sup> Annual Baby Fair for Expectant, New & Experienced Parents (8/6/16,
 200) breastfeeding promotion, WIC, La Leche League, Mother's Milk Bank of Austin

#### TOT FY18: 961 ppl / 8 events

- Huntsman Talks
- Senior Woodlands Township Talks
- Lone Star College Adult Lifelong Learning: Doc Talks
  - Canopy Doc Talks
  - Pelvic Floor Community Talk
    - Heart Healthy Talk
    - Trauma Symposium

National Night Out at Auburn Lakes (first aid and health info given out

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1, 2, 3

| 1.3.5 | Provide                               | Support groups meet in perinatal classroom behind lactation center and | Support groups meet in perinatal classroom   |         |  |  |  |  |  |
|-------|---------------------------------------|--|--|---------|--|--|--|--|--|
|       | education/awaren ess on               | support groups are facilitated by a lactation consultant nurse         | behind lactation center and support groups are facilitated by a lactation consultant nurse   |         |  |  |  |  |  |
|       | breastfeeding benefits for mother     |  |  |         |  |  |  |  |  |
|       | and baby                              |  | No Baby Fair in FY18.  |         |  |  |  |  |  |
|       | (nutrition, bonding,                  |  |  | 4.0     |  |  |  |  |  |
|       | low cost                              |  |  | 1, 2, 3 |  |  |  |  |  |
|       | alternative to                        |  |  |         |  |  |  |  |  |
|       | formula, immunity boosting, etc.) via |  |  |         |  |  |  |  |  |
|       | Baby Fair and                         |  |  |         |  |  |  |  |  |
|       | breastfeeding                         |  |  |         |  |  |  |  |  |
|       | support group                         |  |  |         |  |  |  |  |  |
|       | 31 weekly                             | Monitoring/Evaluation Approach:  | 9-16 N   |         |  |  |  |  |  |
|       | attendees                             |  | <ul> <li>Patient/participant experience surveys (Patient Satisfaction survey on hospital food)</li> <li>Events log maintained by Marketing Manager, Occupation Medicine Liaison, and Oncology Nurse Navigator</li> </ul> |         |  |  |  |  |  |
|       | All About                             | Food Bank report   | son, and oncology warse wavigator  |         |  |  |  |  |  |
|       | Moms                                  |  |  |         |  |  |  |  |  |
|       | Support                               |  |  |         |  |  |  |  |  |
|       | Group: 15                             |  |  |         |  |  |  |  |  |
|       | moms weekly                           |  |  |         |  |  |  |  |  |
|       | on avg.                               |  |  |         |  |  |  |  |  |
|       | Adventures in                         |  |  |         |  |  |  |  |  |
|       | Breastfeedin                          |  |  |         |  |  |  |  |  |
|       | g Support                             |  |  |         |  |  |  |  |  |
|       | Group: 16 moms weekly                 |  |  |         |  |  |  |  |  |
|       | on avg.                               |  |  |         |  |  |  |  |  |

| Priority 1:  | Priority 1: HEALTHY LIVING  |  |  |  |  |  |  |  |
|--------------|---|--|--|--|--|--|--|--|
| Goal 1: Pron | Goal 1: Promote healthy living and provide resources to encourage the community to be proactive in their overall health.            |  |  |  |  |  |  |  |
|              | Potential Partners:   |  |  |  |  |  |  |  |
|              | Interfaith Food Pantry; Montgomery County Food Bank   |  |  |  |  |  |  |  |
|              | Community companies/employers (health fairs, talks)   |  |  |  |  |  |  |  |
|              | Area schools (health fairs, talks)  |  |  |  |  |  |  |  |
|              | <ul> <li>Community organizations that work with low income patients (e.g. Interfaith Community Clinic)</li> </ul>                   |  |  |  |  |  |  |  |
|              | <ul> <li>Area physicians (to give talks, be at health fairs, and/or promote free or low cost programs to their patients)</li> </ul> |  |  |  |  |  |  |  |
|              | Local growers of fresh produce/farmers  |  |  |  |  |  |  |  |

| The state of the s | Objective 1.4:                              | Increase the avenues for the community to participate in act   | civities that promote safe physical act   | ivity  |
|--|---|--|---|--|
| Outcome Indicators:  | Annual<br>Baseline                          | Year 1   | Year 2  | FY 2020<br>Target  |
| <ul> <li>Number of events where we<br/>provide medical<br/>support/athletic trainers</li> </ul>  | 350 Events                                  | FY 17: 414 events  395 athletic events at schools where MHTW provided  Athletic Trainer coverage; 19 community events where ATs, first aid and a physician were provided for medical coverage  52 free injury screenings at ISMI for school age athletes  3,900 student physicals where a nominal fee was charged and all funds were donated back to the schools in the form of a donation from MHTWin FY17 this totaled \$82,365                          |   | 350<br>Events  |
| <ul> <li>Number of educational<br/>talks/events like health fairs<br/>(handouts with preventative<br/>information); number of<br/>attendees (See also 1.2, 1.3,<br/>1.4)</li> </ul>  | Events: 40<br>annually<br>Attendees:<br>500 |  |   | Events<br>40<br>(annual<br>Attendo<br>s: 580<br>(5%<br>annuall |
| Number of exercise classes<br>to cancer survivors and their<br>caregivers  | Events: 8<br>Attendees<br>1,000             | 12 events, 1,665 attendees  Cooking and Nutrition related offerings at Canopy in FY17: cooking demos 70 attendees, oncology nutrition 117; Cooking Together (kids) 60; special functions with healthy foods (end of yr survivor event 120, Breast Friends Christmas party 130, Valentine's Tea 42, Cinco de Mayo Fiesta 98)  Fitness related classes at Canopy Cancer Survivorship Center in FY17: dancing 35 attendees, Pilates 40, Yoga 754, Tai Chi 199 | 10 events  Attendees: 1,389  • Yoga  • Tai Chi  • Pilates  • Guided Meditation  • Eating Well Thru Cancer  • Cooking Demos  • Oncology Nutrition  • Cooking Together  • Active After Cancer  • Cancer Rehab | Events<br>10<br>Attende<br>s: 1,20                             |

| Financial support of | 4 Events   | FY17: 15 events  | 15 Events   | 4 Eve |
|----------------------|--|--|---|-------|
| walk/runs            |  | American Heart Assoc. Heart Walk: Nov. 2016, \$5,000   | FY18 Events and Contributions:  • AHA Heart Walk \$5K   |       |
|                      |  | contribution, our MHTW staff teams raised another \$21,000!  | <ul> <li>CISD Kids Running for Kids \$500</li> </ul>  |       |
|                      |  | Conroe ISD Kids Running for Kids: \$500 contribution   | <ul><li>L&amp;LS Light the Night \$5K</li><li>Walk MS \$1K</li></ul>  |       |
|                      |  | Leukemia & Lymphoma Society's Light the Night: Oct. 2016, \$5,000 contribution                               | <ul><li>WUM Walk Run \$500</li><li>Walk of Hope \$500</li></ul>   |       |
|                      |  | Multiple Sclerosis Society's Walk MS: Oct. 2016, \$1,000 contribution  | <ul><li>MoD March for Babies \$3.5K</li><li>YMCA Dragon Boat Races \$4.8K</li></ul>                                 |       |
|                      |  | Woodlands United Methodist School's Walk/Run: \$500 contribution   | <ul> <li>YMCA Run Thru The Woods \$9,166</li> <li>CB&amp;I Tri \$9,166</li> <li>Muddy Trails \$9,166</li> </ul>     |       |
|                      |  | Resolve Walk of Hope (Infertility): \$500 contribution   | • 10 for Texas \$9,166  |       |
|                      |  | plus our MHTW staff team raised another \$8,700  | <ul> <li>Relay for Life \$1K</li> <li>Woodforest Charity Run \$750</li> <li>Birdies for Parkinson's \$2K</li> </ul> | )     |
|                      | and two teams came to a \$4,800 benefit YMCA memberships for  YMCA Run Thru The Woods: \$ included First Aid coverage at T (funds raised also benefit YMC) income fami  CB&I Tri: \$9,168 co | YMCA's Dragon Boat Races: First Aid coverage for 4 days  | bildies for Farkinson's \$2K  |       |
|                      |  | and two teams came to a \$4,800 contribution (funds raised benefit YMCA memberships for low income families) | Total: \$61,214.00  |       |
|                      |  | YMCA Run Thru The Woods: \$6,500 contribution and  |   |       |
|                      |  | included First Aid coverage at Thanksgiving morning 5K (funds raised also benefit YMCA memberships for low   |   |       |
|                      |  | CB&I Tri: \$9,168 contribution   |   |       |
|                      |  |  | <b>10 for Texas:</b> Oct. 2016, \$9,166 contribution  |       |
|                      |  | Muddy Trails: \$9,166 contribution   |   |       |
|                      |  | American Cancer Society's Relay for Life: \$1,000  |   |       |
|                      |  | contribution   |   |       |
|                      |  | Woodforest Charity Run: \$750 contribution   |   |       |
|                      |  | Birdies for Parkinsons Golf Tournament: \$2,000  |   |       |
|                      |  | contribution   |   |       |

| Strategie | es:   | Year 1 Notes   | Year 2 Notes   | Timeline<br>Year<br>1,2,3 |
|-----------|---|--|--|---------------------------|
| 1.4.1:    | Provide financial support to four (4) runs; 10 for Texas, CBI Tri, Muddy Trails and Run Thru The Woods in the community   | These four are part of The Woodlands Township sponsored runs, but we contribute and/or participate in far more (listed above).   | These four are part of The Woodlands Township sponsored runs, but we contribute and/or participate in far more (listed above). | 1, 2, 3                   |
| 1.4.2:    | Provide facilities on-campus for Canopy program to conduct exercise classes to cancer survivors and their caregivers (e.g., yoga, ballroom dancing, line dancing, guided meditation, tai chi) (See 1.2.2) | In FY17, also performed 52 free injury screenings for student athletes in our ISMI Clinic.   | 10 events<br>Attendees: 1,389  | 1, 2, 3                   |
| 1.4.3:    | Provide medical support/trainer presence and first aid supplies at community sporting events and other annual events (runs, walks, and clubs)   | We performed 3,900 student physicals at a nominal fee, which we in turn donated BACK to the schools. Area schools received a total of \$82,365 from Memorial Hermann from these physicals.                                       | We did continue to perform school physicals for a nominal fee and donated back to individual schools.                          | 1, 2, 3                   |
|           |   | We performed cardiac screenings for students in grades 7-<br>12 at a nominal cost. 63 students took advantage at The<br>Woodlands High School and 2 of those were referred to<br>affiliated pedi cardiologist Faustino Ramos, MD | We also continued to perform cardiac heart screenings for students at a nominal charge.  | _, _, 3                   |

| Priority 1: HEALTHY LIVING   |  |
|--|--|
| ioal 1: Promote healthy living and provide resources to encourage      | the community to be proactive in their overall health.                   |
| 1.4.4: Conduct education/awareness health talks at area schools and/or | TOT FY18: 961 ppl / 8 events 1, 2,                                       |
| local businesses (See strategy 1.1.1)                                  | Huntsman Talks   |
|  | Senior Woodlands Township Talks  |
|  | Lone Star College Adult Lifelong Learning: Doc     Talks                 |
|  | Canopy Doc Talks   |
|  | Pelvic Floor Community Talk  |
|  | Heart Healthy Talk   |
|  | Trauma Symposium   |
|  | National Night Out at Auburn Lakes (first aid and health info given out) |
| Monitoring/Evaluation Approach:  |  |
| Participant experience surveys   | Occumational Madiaina Linian and Omedam, Nursa Navinstan                 |
| Potential Partners:  | , Occupational Medicine Liaison and Oncology Nurse Navigator             |
| Community companies/employers (health fair                             | rs. talks)   |
| Area schools (health fairs, talks)                                     | ,,   |
|  | rs, and/or promote free or low cost programs to their patients)          |

| outcome Indicators:   | Annual<br>Baseline                         | Year 1  | Year 2 | FY 2020 Target              |
|---|--|---|--------|-----------------------------|
| Number of educational<br>talks/events, such as health fairs<br>(handouts with preventative<br>information); number of attendees<br>(See also 1.2, 1.3, 1.4) | Events: 6<br>annually<br>Attendees:<br>300 | FY 17: 309 attendees / 6 events  -Woodlands Township Senior Community Talks:     Arthritis (9/30, 79, 2 v hr, 1 s hr)  -Huntsman Corp. Talks (2-3 locations rotating):     Diabetes Prevention (Plant Site, 7/26, 32, 2 v hr, 1 s hr); Diabetes Prevention (9/2, 81, 2 v hr, 1 s hr); Diabetes (3/15/17, 45, 2 v hr, 1 s hr); and     Colorectal Cancer (6/14, 35, 2 v hr, 1 s hr).  -Strike Corp. Talks: Diabetes (8/2/16, 37, 2 v hr, 1 s hr) |        | Events: 8<br>Attendees: 350 |

| Number of Support Groups,         | 8 groups           | FY 17: 12 groups / 2,310 attendees  |             | 10 groups          |
|-----------------------------------|--------------------|---|-------------|--------------------|
| number of attendees. (See 1.1)    | Attendees:<br>1000 | -Mended Hearts: 9/15/16 <b>41</b> attendees; 11/7 <b>40</b> ;                           |             | Attendees: 1,250   |
|                                   | 1000               | 1/19/17 <b>18</b> ; 3/16 <b>18</b> ; and 5/18 <b>18</b> (10 s hr total);                |             |                    |
|                                   |                    | \$1,080 catering  |             |                    |
|                                   |                    | -Diabetes Support Group: 7/13 <b>8</b> ; 8/18 <b>10</b> ; 9/14                          |             |                    |
|                                   |                    | <b>13</b> ; 10/20 <b>8</b> ; 11/9 <b>17</b> ; 12/15 <b>12</b> ; 1/11/17 <b>16</b> ; 2/8 |             |                    |
|                                   |                    | <b>9</b> ; 4/20 <b>22</b> ; 5/3 <b>11</b> ; 6/14 <b>7</b> (22 staff hrs)                |             |                    |
|                                   |                    | -Weight Loss Support Group: Meets 2x mo,  |             |                    |
|                                   |                    | about 18-20 attendees /session 456 attendees  |             |                    |
|                                   |                    | (12 v hr)   |             |                    |
|                                   |                    | -Parkinson's Support Group: Meets mo, 7-15  |             |                    |
|                                   |                    | attendees /session144 attendees (14 s hr)   |             |                    |
|                                   |                    | -Multiple Sclerosis (MS) Support Group: Meets   |             |                    |
|                                   |                    | mo, 10-15 attendees /session144 attendees   |             |                    |
|                                   |                    | (14 s hr)   |             |                    |
|                                   |                    | -Dysautonomia Support Group: Meets mo, 2-4  |             |                    |
|                                   |                    | attendees /session36 attendees (14 s hr)  |             |                    |
|                                   |                    | -Cancer Education & -Cancer Widows Support  |             |                    |
|                                   |                    | Group: 42 attendees for FY17 (14 s hr)  |             |                    |
|                                   |                    | -Look Good, Feel Better (Cancer): 57 attendees  |             |                    |
|                                   |                    | for FY17 (14 s hr)  |             |                    |
|                                   |                    | -Art Therapy Support Group (Cancer): <b>644</b>   |             |                    |
|                                   |                    | attendees for FY17 (14 s hr, 18 v hr)Support  |             |                    |
|                                   |                    | Group: 222 attendees for FY17 (14 s hr)   |             |                    |
|                                   |                    | -Cancer Coffee & Chatting: 252 attendees for  |             |                    |
|                                   |                    | FY17 (14 s hr)  |             |                    |
|                                   |                    | -Teal Tales Ovarian Cancer Support Group: <b>45</b>                                     |             |                    |
|                                   |                    | attendees for FY17 (14 s hr)  |             |                    |
| Number of patients receiving free | 126                | FY17: 88 items  | FY18: 92    | 168 (10% annually) |
| prosthetics, wigs and scarves     |                    | 64 wigs, 24 breast prosthesis, and 22 scarves   | items       |                    |
|                                   |                    | provided free of charge   | Wigs and    |                    |
|                                   |                    |   | prosthesis, |                    |
|                                   |                    |   | plus 26     |                    |
|                                   |                    |   | scarves     |                    |

| Strategie | es:   | Year 1 Notes   | Year 2 Notes   | Timeline:<br>Year 1,2,3 |
|-----------|---|--|--|-------------------------|
| 1.5.1:    | Conduct education/awareness health talks at area schools and/or local businesses (See strategy 1.1.1)   |  |  | 1, 2, 3                 |
| 1.5.2:    | Conduct no cost support groups for weight loss and for conditions where obesity plays a role - diabetes, heart disease, and stroke (See strategy 1.2.1) |  |  | 1, 2, 3                 |
| 1.5.3     | Provide Nurse Oncology Navigator support and/or Canopy coordinator support to fit patients with free prosthesis, wigs and scarves provided by Canopy    | Canopy cancer survivorship center has a salon like room for shaving parties, wig fittings, scarves and prosthesis fittings                           | Canopy cancer survivorship center has a salon like room for shaving parties, wig fittings, scarves and prosthesis fittings | 1, 2, 3                 |
|           | Events log mainta   | tion Approach:<br>nt experience surveys<br>nined by Marketing Manager & Occupational Medici<br>Navigator to maintain log of prosthetics, wigs and sc |  |                         |
|           | Potential Partners:   | panies/employers (health fairs, talks)   |  | ams to their patients)  |

### **Priority 2: Access to Health Care**

### **Priority 2: HEALTH CARE ACCESS**

Goal 2: Improve access points to primary care and specialty providers by reducing barriers.

**Availability of Primary Care and Specialty Providers** 

Objective 2.1: Increase the number of primary care and specialty care providers in local settings

| Outcome Indicators:   | Annual Baseline                | Year 1  | Year 2  | FY<br>2020<br>Targe<br>t                 |
|---|--------------------------------|---|---|--|
| Number of hospital's associated counties' calls to Nurse<br>Health Line (Montgomery, Walker and Harris) (See 2.4.1) | 30,089                         | 30,130  Top 3 adult concerns: abdominal pain, vaginal symptoms and chest pain.  Top 3 pediatric concerns: fever, vomiting and coughing. | 31,407  | 30,08<br>9                               |
| People served through Interfaith Community Clinic   | 2,107 patients<br>8,681 visits | \$682,275 in charity care<br>2,190 patients<br>Number of Visits: 9,686  | \$685,059.25 in<br>charity care<br>2,184 patients<br>Number of Visits:<br>9,846 | 2,212<br>patie<br>nts<br>9,115<br>visits |
| Number of telemedicine consultations  | 275/year (in 2015)             | FY17 Total: 324 Stroke: 284 Pediatric Surgery: 40   | FY18 Total: 282 Stroke: 266 Pediatric Surgery: 16                               | 275/y<br>ear                             |
| Strategies:   |                                | Year 1 Notes  | Year 2 Notes  | Timel ine:<br>Year<br>1,2,3              |

| Priority 2: HEALTH CARE ACCESS  Goal 2: Improve access points to primary care and specialty providers by reducing  | ; barriers.   |   |         |
|--|---|---|---------|
| 2.1.1: Provide a 24/7 free resource via the Nurse Health Line that community members (uninsured and insured) within the MHHS community can call to discuss their health concerns, receive recommendations on the appropriate setting for care, and get connected to appropriate resources. (see 2.4.1) | More than 46% of all patients seen in the Emergency Room are there for Primary Care related conditions.  Open 24/7, 365 days a year with English and Spanish-     |   |         |
|  | speaking RNs  According to the Nurse Health Line, 78% who would have gone to the ER for carewere redirected to primary care                                       |   | 1, 2, 3 |
|  | Also according to the Nurse Health Line, of those that were triaged by the RN on the phone, 49% were directed to PCP, 33% to the ER, and 18% to self-care at home |   |         |
| 2.1.2: Provide funding support for the Interfaith Community Clinic which provides free care to underserved populations.  | The Clinic is located across I45 from MHTW.   | The Clinic is located across I45 from MHTW. | 1, 2, 3 |

| Priority 2:<br>Goal 2: | HEALTH CARE ACCESS  Improve access points to primary care and specialty providers by reducing   | barriers.   |         |
|------------------------|---|---|---------|
| 2.1.3: Provid          | le telemedicine consults free of charge for stroke and pediatric surgery patients, to determine   | Pedi telemedicine consults in the ER and in the NICU; of the 40, only 9 had to be transferred to CMHH in the TMC; 21 were admitted or stayed admitted at MHTW; and 10 were treated and d/c to home  Stroke Consults in the ER with the TMC; of those consults, 27 were given tPA and 13 were transferred to the TMC | 1, 2, 3 |
|                        | Monitoring/Evaluation Approach:  Patient/participant experience surveys Interfaith Community Clinic feedback ER visits and Interfaith Community Clinic funding tracked through finance Telemedicine consults maintained in the ER Nurse Health Line calls  Potential Partners: Government relations office Area physicians (to give talks, be at health fairs, and/or promote free or low of Memorial Hermann Community Benefit Corporation | cost programs to their patients)  |         |

| Outcome   | e Indicators:   | Annual Baseline          | Year 1  | Year 2   | FY<br>2020<br>Targ<br>et          |
|-----------|---|--------------------------|---|--|-----------------------------------|
| Number o  | f people successfully insured through RCA   | 1,400 patients screened  | 1,842 patients screened. A total of 678 of these patients were able to be placed into a program to assist them with medical costs.  | 1,230 patients screened. A total of 584 of these patients were able to be placed into a program to assist them with medical costs                    | 1,62<br>1<br>(5%<br>annu<br>ally) |
| Strategie | es:   |                          | Year 1 Notes  | Year 2 Notes   | Time<br>line:<br>Year<br>1,2,3    |
| 2.2.1:    | Contract with Resource Corporation of America (RCA) to insurance coverage for community  RCA is a third-party eligibility vendor (paid by MHTW) to application process for Medicaid, County Indigent, Affor Exchange, and other third-party payors. | assist patients with the | Of those screened: 55 placed into Medicaid for Aged & Disabled; 240 into County programs; 273 into traditional Medicaid; 96 into Social Sec Disability; 14 into VVC (Crime Victims' Assistance) | Placed among: Medicaid for<br>Aged & Disabled; County<br>programs; traditional Medicaid;<br>Social Sec Disability; VVC (Crime<br>Victims' Assistance | 1, 2,                             |
|           | Monitoring/Evaluation Approach:  • Log of insured through RCA   |                          |   |  |                                   |
|           | Potential Partners:   |                          |   |  |                                   |
|           | Case Workers  |                          |   |  |                                   |

| Outcome Indicators:  | Annual Baseline   | Year 1  | Year 2  | FY 2020  |
|--|---|---|---|--|
|  |   |   |   | Target   |
| Number of patients who did not need to be transferred due to telemedicine consults   | Stroke 200<br>Pediatric – Establish<br>baseline in Y1<br>40 | Pedi telemedicine consults in the ER and in the NICU; of the 40, only 9 had to be transferred to CMHH in the TMC; 21 were admitted or stayed admitted at MHTW; and 10 were treated and d/c to home  284 Stroke Consults in the ER with the TMC; of those consults, 27 were given tPA and 13 were transferred to the TMC |   | Stroke 231 (5% annually) Pediatric (once baseline establishe d) 50 |
| Number of vouchers used  | 182   | 211   | 240   | 211 (5%<br>annually)   |
| Strategies:  |   | Year 1 Notes  | Year 2 Notes  | Timeline:<br>Year 1,2,3  |
| 2.3.1: Provide transportation vouchers for patients to return home for   | ollowing care   | Average of <b>18</b> taxi vouchers per month per OA Richard Smedley, RN   | Average of <b>20</b> taxi<br>vouchers per month per<br>OA Richard Smedley, RN | 1, 2, 3  |
| 2.3.2: Provide telemedicine consults free of charge for stroke and pedetermine if additional transfer and associated expense is necessary 2.1.3) |   | 231   | 262   | 1, 2, 3  |
| Monitoring/Evaluation Approach:  • Patient experience surveys  • Telemedicine consults maintained in th  • Voucher count maintained by case man  |   |   |   |  |
| <ul> <li>Potential Partners:</li> <li>Area physicians (to promote free or low</li> <li>Community organizations that work with</li> </ul>         | . •   | •   | inic)   |  |

| Outcome Indicat                   | ors:  | Annual Baseline  | Year 1   | Year 2       | FY 2020<br>Target       |
|-----------------------------------|---|--|--|--------------|-------------------------|
|                                   | spital's associated counties' calls to Nurse<br>lontgomery, Walker, and Harris) (See 2.1.1)   | 30,089   | 30,130  Top 3 adult concerns: abdominal pain, vaginal symptoms and chest pain. Top 3 pediatric concerns: fever, vomiting and coughing. | 31326        | 30,089                  |
| <ul> <li>Number of pat</li> </ul> | tient navigators  | 1  | 1  | 2            | 1-2                     |
| Strategies:                       |   |  | Year 1 Notes   | Year 2 Notes | Timeline:<br>Year 1,2,3 |
| (uninsu<br>concer                 | e a 24/7 free resource via the Nurse Health Line the<br>ured and insured) within the MHHS community cans, receive recommendations on the appropriate<br>cted to appropriate resources (See 2.1.1) | n call to discuss their health   |  |              | 1, 2, 3                 |
| 2.4.2: Increas                    | se number of patient navigators to provide service  | es to our cancer patients  | Still just the one – Carolyn<br>Allsen, RN who is now<br>officed in Canopy (Cancer<br>Survivorship Center)                             |              | 1, 2, 3                 |
|                                   | <ul> <li>Monitoring/Evaluation Approach:</li> <li>Patient/participant experience surveys</li> <li>Nurse Health Line call log</li> </ul>   |  |  |              |                         |
|                                   | Potential Partners:   | The state of the s | or low cost programs to their patie  | nts)         |                         |

#### **Priority 3: Behavioral Health**

The following tables provide strategies and outcome indicators that reflect an MHHS system-wide approach to Behavioral Health. Data is not specific to MH The Woodlands but to the community at large with the exception of reduction in ER encounters that result in a psychiatric inpatient stay through linkages with a network of behavioral partners.

#### **Priority 3: Behavioral Health**

Goal 3: Ensure that all community members who are experiencing a mental health crisis have access to appropriate psychiatric specialists at the time of their crisis, are redirected away from the ER, are linked to a permanent, community based mental health provider, and have the necessary knowledge to navigate the system, regardless of their ability to pay.

Objective 3.1: Create nontraditional access points around the community (crisis/ambulatory, acute care, and community-based chronic care management), and link those who need services to permanent providers and resources in the community

| management, and link those who need services to permanent providers and resources in the community |                          |                       |                       |                 |  |  |
|--|--------------------------|-----------------------|-----------------------|-----------------|--|--|
| Outcome Indicators:  | Annual Baseline          | Year 1                | Year 2                | FY 2020 Target  |  |  |
| Decrease in number of ER encounters that result in psychiatric inpatient                           | 1,146                    | 1,213                 | 1,135                 | 1,089           |  |  |
| stay   |                          |                       |                       | 5% reduction of |  |  |
|  |                          |                       |                       | baseline        |  |  |
| Decrease in number of ER encounters that result in psychiatric inpatient     stay. The Woodlands   | 157                      | 166                   | 179                   | 149             |  |  |
| stay – The Woodlands  • Number of Memorial Hermann Crisis Clinic total visits                      | F 400                    | F F00                 | E E00                 | 5% over         |  |  |
| • Number of Memorial Hermann Crisis Clinic total visits  | 5,400                    | 5,590                 | 5,590                 | baseline        |  |  |
| Number of Psychiatric Response Care Management total visits  | 1,200                    | 1,103                 | 1,259                 | 5% over         |  |  |
| Number of Esychiatric Response care Management total visits  | 1,200                    | 1,103                 | 1,233                 | baseline        |  |  |
|  |                          | Year 1 Notes          | Year 2 Notes          | Timeline:       |  |  |
| Strategies:  |                          | real 1 Notes          | rear 2 Notes          |                 |  |  |
|  |                          |                       |                       | Year 1,2,3      |  |  |
| 3.1.1: Provide mental health assessment, care, and linkage to services in an                       | acute care setting, 24x7 | An uptick in acute    | An increase in acute  |                 |  |  |
| at The Woodlands   |                          | care volume over      | care volume and       |                 |  |  |
|  |                          | the past fiscal year  | number of acute       |                 |  |  |
|  |                          | has contributed to a  | care sites over the   |                 |  |  |
|  |                          | higher number of      | past fiscal year have | 1,2,3           |  |  |
|  |                          | psychiatric transfers | contributed to a      |                 |  |  |
|  |                          | overall.              | higher number of      |                 |  |  |
|  |                          |                       | psychiatric transfers |                 |  |  |
|  |                          |                       | overall.              |                 |  |  |

| Sal. 2: Ensure that all community members who are experiencing a mental health crisis have access to appropriate psychiatric specialists at the time of their crisis, are redirected away from the ER, are linked to a permanent, community based mental health provider, and have the necessary knowledge to navigate the system, regardless of their ability to pay.  3.1.2: Create nontraditional community access to psychiatric providers for individuals experiencing a mental health crisis. Clinical Social Workers connect the target population to on-going behavioral health crae  3.1.3: Engage individuals with a chronic mental illness and work to maintain engagement with treatment and stability in the community via enrollment in community-based mental health case management program  3.1.3: Engage individuals with a chronic mental illness and work to maintain engagement with treatment and stability in the community via enrollment in community-based mental health case management program  3.1.3: Engage individuals with a chronic mental illness and work to maintain engagement with treatment and stability in the community via enrollment in community-based mental health crisis have access to specific recovery willing to consider a career that is community based with the requirement of making home visits and working non traditional hours is an ongoing challenge.  Monitoring/Evaluation Approach:  Monitoring/Evaluation Approach:  | Priority 3: | Behavioral Health  |  |   |       |
|---|-------------|--|--|---|-------|
| mental health care  health providers willing to commit to a non-traditional schedule remains a challenge. Continuing this urgent care model of treatment remains a priority, due to limited mental health treatment access in the community.  Staffing issues  treatment and stability in the community via enrollment in community-based mental health case management program  3.1.3:  Engage individuals with a chronic mental illness and work to maintain engagement with treatment access in the community.  Staffing issues  impeded year one target. Identifying appropriately licensed clinicians willing to consider a career that is community admits and working non traditional hours is an ongoing challenge.  Monitoring/Evaluation Approach:  | Goal 3:     | specialists at the time of their crisis, are redirected away from the ER, are lin            | nked to a permaner   | nt, community based   |       |
| treatment and stability in the community via enrollment in community-based mental health case management program  impeded year one target. Identifying appropriately licensed clinicians willing to consider a career that is community based with the requirement of making home visits and working non – traditional hours is an ongoing challenge.  Monitoring/Evaluation Approach:  impeded year one target. Identifying appropriately specific recovery goals and utilize evidence-based practices to facilitate client achievement. We continue to partner with their clients to identify specific recovery goals and utilize evidence-based practices to facilitate client achievement. We continue to partner with their clients to identify specific recovery goals and utilize evidence-based practices to facilitate client achievement. We continue to partner with their clients to identify specific recovery goals and utilize evidence-based practices to facilitate client achievement. We continue to partner with their clients to identify specific recovery goals and utilize evidence-based practices to facilitate client achievement. We continue to partner with their clients to identify specific recovery goals and utilize evidence-based practices to facilitate client achievement. We continue to partner with their clients to identify specific recovery goals and utilize evidence-based practices to facilitate client achievement. We continue to partner with their clients to identify specific recovery goals and utilize evidence-based practices to facilitate client achievement. We continue to partner with their clients and utilize evidence-based practices to facilitate client achievement. We continue to partner with their clients achievement achievement achievement. We continue to partner with their clients achievement achievement achievement achievement. We continue to partner with their clients achievement | m           | ental health crisis. Clinical Social Workers connect the target population to on-going       |  | health providers willing to commit to a non-traditional schedule remains a challenge. Continui ng this urgent care model of treatment remains a priority, due to limited mental health treatment access in                                      | 1,2,3 |
| · · · · · · · · · · · · · · · · · · ·   | tr          | eatment and stability in the community via enrollment in community-based mental health       | impeded year one target. Identifying appropriately licensed clinicians willing to consider a career that is community based with the requirement of making home visits and working non – traditional hours is an ongoing | partner with their clients to identify specific recovery goals and utilize evidence-based practices to facilitate client achievement. We continue to partner with community providers to address the mental health needs of the Greater Houston | 1,2,3 |
| FNAD (no minturation or retains (Amont and Amont de les constitutes)  |             | Monitoring/Evaluation Approach:  • EMR/registration system (track and trend daily, weekly, n |  |   |       |

| Priority 3: | Behavioral Health  |
|-------------|--|
| Goal 3:     | Ensure that all community members who are experiencing a mental health crisis have access to appropriate psychiatric specialists at the time of their crisis, are redirected away from the ER, are linked to a permanent, community based mental nealth provider, and have the necessary knowledge to navigate the system, regardless of their ability to pay. |
|             | Potential Partners:  |
|             | System acute care campuses     Mamorial Harmann Madical Croun  |
|             | <ul> <li>Memorial Hermann Medical Group</li> <li>Network of public and private providers</li> </ul>  |

Objective 3.2: Reduce stigma in order to promote mental wellness and improve community awareness that mental health is part of physical health and overall well-being **Outcome Indicators:** FY 2020 **Annual Baseline** Year 2 Year 1 Target • Number of presentations/educational sessions for healthcare professionals 5% increase 50 sessions per year 63 71 within MHHS over baseline • Number of presentations/educational sessions for corporations 5% over 7 5 8 baseline • TW Stress management (total time includes training material development 1 training (6.5 1 training (6.5 and implementation) hours)\* 0 hours)\* • Training on Acute Care Concepts - system nurse resident program 15 trainings 15 trainings (45 hours (45 hours total/3 9 18 total/3 hours hours each)\* each)\* • Training on CMO Roundtable - system-wide 1 training (2 1 training (2 hours)\* 0 4 hours)\* \*Total time includes training material development and implementation 531.6 **Strategies:** Timeline: Year 1 Year 2 Notes Notes Year 1,2,3

| Monitoring/Evaluation Approach:  |
|--|
| <ul> <li>Requests for presentations and sessions tracked via calendar/excel</li> </ul> |
| Potential Partners:  |
| System acute care campuses   |
| System Marketing and Communications  |
| Employer solutions group   |

1,2,3

1,2,3

3.2.1:

3.2.2:

physicians

on MH topics (stress, PTSD)

Provide mental health education sessions within the MH health system for nurses and

Work with employer solutions group to provide education and training with corporations

| Outcome Indicators:  | <b>Annual Baseline</b> | Year 1  | Year 2   | FY 2020 Target              |
|--|------------------------|---|--|-----------------------------|
| Number of Memorial Hermann Crisis Clinic follow-ups post discharge with clinic patients                                | 7,716                  | 6,431   | 5,154  | 5% over baseline            |
| Psychiatric Response Case Management reduction in system ER utilization  | 54.4%                  | 53.0%   | 50%  | 5% increase ove<br>baseline |
| Strategies:  |                        | Year 1 Notes  | Year 2 Notes   | Timeline:<br>Year 1,2,3     |
| 3.3.1: Social workers follow-up with discharged patients and their families to and connect them to community resources | o assess well-being    | The goal is to continue to educate the community, including other health systems, about the crisis clinic level of care so that when someone is experiencing a mental health crisis or needs immediate access to a behavioral health provider, the clinic will be the identified referral source. | The System has seen an overall increase in patient acuity with complex physical and behavioral health needs requiring higher levels of care. The Crisis Clinic and Psych Response Case Management Programs continue to meet the needs of patients with behavioral health conditions by providing immediate access to a mental health provider. | 1,2,3                       |

| Priority 3 | : Behavioral Health   |   |
|------------|---|---|
| Goal 3:    | Ensure that all community members who are experiencing a mental health specialists at the time of their crisis, are redirected away from the ER, are health provider, and have the necessary knowledge to navigate the system | linked to a permanent, community based mental   |
| 3.3.2:     | Psychiatric Response Case Management Program utilizes evidence-based practice interventions (motivational interviewing, MH First Aid, CAMS, etc.) to reduce ER utilization for program enrollees                              | Case Managers continue to partner with community agencies in an effort to connect program enrollees to resources for ongoing wellness. Program clinicians continue to use evidence-based practice interventions to reduce ER utilization and improve quality of life. |
|            | Monitoring/Evaluation Approach:   |   |
|            | Social work logs (Excel spreadsheet)  |   |
|            | Potential Partners:   |   |
|            | System acute care campuses  |   |
|            | Community-based clinical providers     Network of public and private providers  |   |
| 1          | Network of public and private providers   |   |

# **Appendix B. Secondary Data Methodology**

#### **Secondary Data Sources**

The main source for the secondary data, or data that have been previously collected, is the community indicator database maintained by Conduent Healthy Communities Institute. The following is a list of both local and national sources used in Memorial Hermann The Woodlands' Community Health Needs Assessment.

#### **Harris County**

- 1. American Community Survey
- 2. American Lung Association
- 3. Centers for Medicare & Medicaid Services
- 4. County Health Rankings
- 5. Feeding America
- 6. Institute for Health Metrics and Evaluation
- 7. National Cancer Institute
- 8. National Center for Education Statistics
- 9. Small Area Health Insurance Estimates
- 10. Texas Behavioral Risk Factor Surveillance System
- 11. Texas Department of Family and Protective Services
- 12. Texas Department of State Health Services
- 13. Texas Education Agency
- 14. Texas Secretary of State
- 15. U.S. Bureau of Labor Statistics
- 16. U.S. Census County Business Patterns
- 17. U.S. Department of Agriculture Food Environment Atlas
- 18. U.S. Environmental Protection Agency

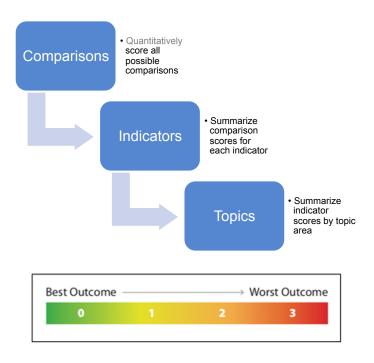
#### **Montgomery County**

- 1. American Community Survey
- 2. American Lung Association
- 3. Centers for Medicare & Medicaid Services
- 4. County Health Rankings
- 5. Feeding America
- 6. Institute for Health Metrics and Evaluation
- 7. National Cancer Institute
- 8. National Center for Education Statistics
- 9. Small Area Health Insurance Estimates
- 10. Texas Department of Family and Protective Services
- 11. Texas Department of State Health Services
- 12. Texas Education Agency
- 13. Texas Secretary of State
- 14. U.S. Bureau of Labor Statistics

- 15. U.S. Census County Business Patterns
- 16. U.S. Department of Agriculture Food Environment Atlas
- 17. U.S. Environmental Protection Agency

#### **Secondary Data Scoring**

Data scoring is done in three stages:



For each indicator, each county in Memorial Hermann The Woodlands' service area is assigned a score based on its comparison to other communities, whether health targets have been met, and the trend of the indicator value over time. These comparison scores range from 0-3, where 0 indicates the best outcome and 3 the worst. Availability of each type of comparison varies by indicator and is dependent upon the data source, comparability with data collected for other communities, and changes in methodology over time.

Indicators are categorized into topic areas and each topic area receives a score. Indicators may be categorized in more than one topic area. Topic scores are determined by the comparisons of all indicators within the topic.

#### Comparison to a Distribution of County Values: Within State and Nation

For ease of interpretation and analysis, indicator data on the Community Dashboard is visually represented as a green-yellow-red gauge showing how the community is faring against a distribution of counties in the state or the United States. A distribution is created by taking all county values within the state or nation, ordering them from low to high, and dividing them into three groups (green, yellow, red) based on their order. Indicators with the poorest comparisons ("in the red") scored high, whereas indicators with good comparisons ("in the green") scored low.

#### Comparison to Values: State, National, and Targets

Each county is compared to the state value, the national value, and target values. Target values include the nation-wide Healthy People 2020 (HP2020) goals. Healthy People 2020 goals are national objectives for improving the health of the nation set by the Department of Health and Human Services' (DHHS) Healthy People Initiative. For all value comparisons, the scoring depends on whether the county value is better or worse than the comparison value, as well as how close the county value is to the target value.

#### **Trend Over Time**

The Mann-Kendall statistical test for trend was used to assess whether the county value is increasing over time or decreasing over time, and whether the trend is statistically significant. The trend comparison uses the four most recent comparable values for the county, and statistical significance is determined at the 90% confidence level. For each indicator with values available for four time periods, scoring was determined by direction of the trend and statistical significance.

#### Missing Values

Indicator scores are calculated using the comparison scores, availability of which depends on the data source. If the comparison type is possible for an adequate proportion of indicators on the community dashboard, it will be included in the indicator score. After exclusion of comparison types with inadequate availability, all missing comparisons are substituted with a neutral score for the purposes of calculating the indicator's weighted average. When information is unknown due to lack of comparable data, the neutral value assumes that the missing comparison score is neither good nor bad.

#### **Indicator Scoring**

Indicator scores are calculated as a weighted average of all included comparison scores. If none of the included comparison types are possible for an indicator, no score is calculated and the indicator is excluded from the data scoring results.

#### **Topic Scoring**

Indicator scores are averaged by topic area to calculate topic scores. Each indicator may be included in up to three topic areas if appropriate. Resulting scores range from 0-3, where a higher score indicates a greater level of need as evidenced by the data. A topic score is only calculated if it includes at least three indicators.

# **Data Scoring Results**

The following tables list each indicator by topic area for each of the counties in Memorial Hermann The Woodlands' service area. Secondary data for this report are up to date as of November 2, 2018.

### **Harris County**

| Harris | County  | <u> </u>                         |                  |        |       |       | 1                     |                 |        |
|--------|---|----------------------------------|------------------|--------|-------|-------|-----------------------|-----------------|--------|
| SCORE  | ACCESS TO HEALTH SERVICES                               | UNITS                            | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
|        | Adults Unable to Afford to See a                        |                                  |                  |        |       |       |                       |                 |        |
| 2.00   | Doctor  | percent                          | 22.1             |        | 18.3  | 12.1  | 2015                  |                 | 10     |
| 1.81   | Children with Health Insurance                          | percent                          | 89.4             | 100    | 90.3  |       | 2016                  |                 | 9      |
|        | Adults with Health Insurance: 18-                       |                                  |                  |        |       |       |                       |                 |        |
| 1.75   | 64  | percent                          | 74.7             | 100    | 77.4  |       | 2016                  |                 | 9      |
| 1.75   | Persons with Health Insurance                           | percent                          | 79.3             | 100    | 81.4  |       | 2016                  |                 | 9      |
| 1.61   | Primary Care Provider Rate                              | providers/ 100,000<br>population | 57.2             |        | 59.9  | 75.5  | 2015                  |                 | 4      |
| 1.44   | Mental Health Provider Rate                             | providers/ 100,000<br>population | 103.7            |        | 98.8  | 214.3 | 2017                  |                 | 4      |
| 1.00   | Non-Physician Primary Care<br>Provider Rate             | providers/ 100,000<br>population | 72.2             |        | 66.8  | 81.2  | 2017                  |                 | 4      |
| 0.50   | Dentist Rate  | dentists/ 100,000<br>population  | 66.3             |        | 55.9  | 67.4  | 2016                  |                 | 4      |
| SCORE  | CANCER  | UNITS                            | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 2.53   | Cervical Cancer Incidence Rate                          | cases/ 100,000<br>females        | 11               | 7.3    | 9.2   | 7.5   | 2011-2015             |                 | 7      |
| 2.25   | Age-Adjusted Death Rate due to<br>Breast Cancer         | deaths/ 100,000<br>females       | 23.2             | 20.7   | 20.2  | 20.9  | 2011-2015             | Black           | 7      |
| 1.94   | Cancer: Medicare Population                             | percent                          | 7.6              |        | 7.1   | 7.8   | 2015                  |                 | 3      |
| 1.58   | Colon Cancer Screening:<br>Sigmoidoscopy or Colonoscopy | percent                          | 57.6             |        | 62.3  |       | 2016                  |                 | 10     |
| 1.53   | Age-Adjusted Death Rate due to<br>Prostate Cancer       | deaths/ 100,000<br>males         | 19.8             | 21.8   | 18.1  | 19.5  | 2011-2015             |                 | 7      |
| 1 20   | Breast Cancer Incidence Rate                            | cases/ 100,000                   | 112 7            |        | 111 7 | 12/17 | 2011_2015             |                 | 7      |

|       |  | cases/ 100,000                |                  |        |       |       |                       |                          |        |
|-------|--|-------------------------------|------------------|--------|-------|-------|-----------------------|--------------------------|--------|
| 1.33  | Prostate Cancer Incidence Rate                   | males                         | 102.5            |        | 95.4  | 109   | 2011-2015             |                          | 7      |
| 1.22  | Age-Adjusted Death Rate due to Colorectal Cancer | deaths/ 100,000<br>population | 14.6             | 14.5   | 14.4  | 14.5  | 2011-2015             |                          | 7      |
| 1.00  | All Cancer Incidence Rate                        | cases/ 100,000 population     | 402.6            |        | 401.3 | 441.2 | 2011-2015             |                          | 7      |
| 0.94  | Age-Adjusted Death Rate due to<br>Cancer         | deaths/ 100,000<br>population | 157.8            | 161.4  | 156.4 | 163.5 | 2011-2015             | Black, Male              | 7      |
| 0.94  | Colorectal Cancer Incidence Rate                 | cases/ 100,000<br>population  | 38.8             | 39.9   | 38.1  | 39.2  | 2011-2015             |                          | 7      |
| 0.89  | Oral Cavity and Pharynx Cancer<br>Incidence Rate | cases/ 100,000<br>population  | 10.9             |        | 10.9  | 11.6  | 2011-2015             |                          | 7      |
| 0.50  | Lung and Bronchus Cancer Incidence Rate          | cases/ 100,000 population     | 50.9             |        | 53.1  | 60.2  | 2011-2015             |                          | 7      |
| 0.33  | Age-Adjusted Death Rate due to<br>Lung Cancer    | deaths/ 100,000<br>population | 37.5             | 45.5   | 39    | 43.4  | 2011-2015             |                          | 7      |
| SCORE | CHILDREN'S HEALTH                                | UNITS                         | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY*          | Source |
| 1.81  | Children with Health Insurance                   | percent                       | 89.4             | 100    | 90.3  |       | 2016                  |                          | 9      |
| 1.67  | Child Food Insecurity Rate                       | percent                       | 23.5             |        | 23    | 17.9  | 2016                  |                          | 5      |
| 1.50  | Children with Low Access to a<br>Grocery Store   | percent                       | 5.4              |        |       |       | 2015                  |                          | 17     |
| 1.11  | Substantiated Child Abuse Rate                   | cases/ 1,000<br>children      | 5.4              |        | 8.5   |       | 2017                  |                          | 11     |
|       |  |                               |                  |        |       |       |                       |                          |        |
| SCORE | DIABETES   | UNITS                         | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY*          | Source |
| 1.67  | Diabetes: Medicare Population                    | percent                       | 28.1             |        | 28.2  | 26.5  | 2015                  |                          | 3      |
| 1.44  | Adults with Diabetes                             | percent                       | 10.2             |        | 11.2  | 10.5  | 2016                  |                          | 10     |
| 0.92  | Age-Adjusted Death Rate due to Diabetes          | deaths/ 100,000<br>population | 20.2             |        | 21.7  | 21.2  | 2010-2014             | Black, Hispanic,<br>Male | 12     |

| SCORE | ECONOMY  | UNITS                    | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY*  | Source |
|-------|--|--------------------------|------------------|--------|-------|------|-----------------------|--|--------|
| 2.44  | Homeownership  | percent                  | 49.6             |        | 55    | 55.9 | 2012-2016             |  | 1      |
| 2.39  | Severe Housing Problems                                      | percent                  | 20.9             |        | 18.3  | 18.8 | 2010-2014             |  | 4      |
| 2.22  | Students Eligible for the Free<br>Lunch Program              | percent                  | 58.2             |        | 52.9  | 42.6 | 2015-2016             |  | 8      |
| 2.14  | Median Monthly Owner Costs for Households without a Mortgage | dollars<br>stores/ 1,000 | 534              |        | 467   | 462  | 2012-2016             |  | 1      |
| 2.11  | SNAP Certified Stores  | population               | 0.6              |        |       |      | 2016                  |  | 17     |
| 2.08  | Median Household Gross Rent                                  | dollars                  | 937              |        | 911   | 949  | 2012-2016             |  | 1      |
| 2.06  | Families Living Below Poverty<br>Level                       | percent                  | 14.4             |        | 13    | 11   | 2012-2016             | American Indian or<br>Alaska Native, Black<br>or African American,<br>Hispanic or Latino,<br>Other | 1      |
| 2.06  | Food Insecurity Rate   | percent                  | 16.6             |        | 15.4  | 12.9 | 2016                  | Other  | 5      |
| 1.94  | Unemployed Workers in Civilian Labor Force                   | percent                  | 4.4              |        | 4     | 4.1  | July 2018             |  | 15     |
| 1.89  | People 65+ Living Below Poverty<br>Level                     | percent                  | 11.3             |        | 10.8  | 9.3  | 2012-2016             | Asian, Black or<br>African American,<br>Hispanic or Latino,<br>Other, Female, 75+                  | 1      |
| 1.81  | Mortgaged Owners Median<br>Monthly Household Costs           | dollars                  | 1504             |        | 1444  | 1491 | 2012-2016             |  | 1      |
| 1.67  | Child Food Insecurity Rate                                   | percent                  | 23.5             |        | 23    | 17.9 | 2016                  |  | 5      |
| 4.67  | Children Living Below Poverty                                |                          | 26               |        | 22.0  | 24.2 | 2012 2016             | American Indian or<br>Alaska Native, Black<br>or African American,<br>Hispanic or Latino,          |        |
| 1.67  | Level  | percent                  | 26               |        | 23.9  | 21.2 | 2012-2016             | Other, <6 American Indian or   | 1      |
| 1.67  | People Living Below Poverty Level                            | percent                  | 17.4             |        | 16.7  | 15.1 | 2012-2016             | Alaska Native, Black   | 1      |

|      |   |         |        |        |        |           | or African American,<br>Hispanic or Latino,<br>Other, Female, <6,<br>6-11, 12-17, 18-24                         |    |
|------|---|---------|--------|--------|--------|-----------|---|----|
| 1.67 | Total Employment Change                                     | percent | 2.4    | 3.2    | 2.5    | 2014-2015 |   | 16 |
| 1.50 | Renters Spending 30% or More of<br>Household Income on Rent | percent | 46.8   | 48     | 47.3   | 2012-2016 |   | 1  |
| 1.42 | Persons with Disability Living in Poverty (5-year)          | percent | 25.4   | 25.1   | 27.6   | 2012-2016 |   | 1  |
| 1.33 | Low-Income and Low Access to a Grocery Store                | percent | 6.3    |        |        | 2015      |   | 17 |
| 1.33 | People Living 200% Above Poverty<br>Level                   | percent | 61.6   | 62.8   | 66.4   | 2012-2016 |   | 1  |
| 1.08 | Median Housing Unit Value                                   | dollars | 145600 | 142700 | 184700 | 2012-2016 |   | 1  |
| 0.97 | Persons with Disability Living in Poverty                   | percent | 22.9   | 24.2   | 26.6   | 2016      |   | 1  |
| 0.94 | Female Population 16+ in Civilian<br>Labor Force            | percent | 59.8   | 57.7   | 58.3   | 2012-2016 |   | 1  |
| 0.94 | Population 16+ in Civilian Labor<br>Force                   | percent | 68.3   | 64.2   | 63.1   | 2012-2016 |   | 1  |
| 0.89 | Households with Cash Public<br>Assistance Income            | percent | 1.5    | 1.6    | 2.7    | 2012-2016 |   | 1  |
| 0.67 | Homeowner Vacancy Rate                                      | percent | 1.5    | 1.6    | 1.8    | 2012-2016 |   | 1  |
| 0.50 | Median Household Income                                     | dollars | 55584  | 54727  | 55322  | 2012-2016 | American Indian or<br>Alaska Native, Black<br>or African American,<br>Hispanic or Latino,<br>Other              | 1  |
| 0.55 | Treatan Household meeting                                   | aonars  | 33304  | 37727  | 33322  | 2012 2010 | American Indian or<br>Alaska Native, Black<br>or African American,<br>Hispanic or Latino,<br>Native Hawaiian or | -  |
| 0.50 | Per Capita Income   | dollars | 29850  | 27828  | 29829  | 2012-2016 | Other Pacific   | 1  |

|       |   |                                  |                  |        |       |      |                       | Islander, Other, Two   |        |
|-------|---|----------------------------------|------------------|--------|-------|------|-----------------------|--|--------|
|       |   |                                  |                  |        |       |      |                       | or More Races  |        |
|       |   |                                  |                  |        |       |      |                       |  |        |
| SCORE | EDUCATION   | UNITS                            | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY*  | Source |
| 1.92  | Infants Born to Mothers with <12<br>Years Education | percent                          | 27.5             |        | 21.6  | 15.9 | 2013                  |  | 12     |
| 1.89  | Student-to-Teacher Ratio                            | students/ teacher                | 16.4             |        | 15.4  | 17.7 | 2015-2016             |  | 8      |
| 1.67  | High School Drop Out Rate                           | percent                          | 2.6              |        | 2     |      | 2016                  |  | 13     |
| 1.67  | People 25+ with a High School<br>Degree or Higher   | percent                          | 80.2             |        | 82.3  | 87   | 2012-2016             | Male, 35-44, 45-64,<br>65+   | 1      |
| 0.67  | People 25+ with a Bachelor's<br>Degree or Higher    | percent                          | 30.1             |        | 28.1  | 30.3 | 2012-2016             | American Indian or<br>Alaska Native, Black<br>or African American,<br>Native Hawaiian or<br>Other Pacific<br>Islander, Other, 45-<br>64, 65+ | 1      |
| SCORE | ENVIRONMENT   | UNITS                            | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY*  | Source |
| 2.39  | Severe Housing Problems                             | percent                          | 20.9             |        | 18.3  | 18.8 | 2010-2014             |  | 4      |
| 2.11  | SNAP Certified Stores                               | stores/ 1,000<br>population      | 0.6              |        |       |      | 2016                  |  | 17     |
| 1.75  | Annual Ozone Air Quality                            | grade                            | F                |        |       |      | 2014-2016             |  | 2      |
| 1.69  | Annual Particle Pollution                           | grade                            | С                |        |       |      | 2014-2016             |  | 2      |
| 1.67  | Fast Food Restaurant Density                        | restaurants/ 1,000<br>population | 0.7              |        |       |      | 2014                  |  | 17     |
| 1.61  | Recognized Carcinogens Released into Air            | pounds                           | 1962916          |        |       |      | 2017                  |  | 18     |
| 1.50  | Children with Low Access to a<br>Grocery Store      | percent                          | 5.4              |        |       |      | 2015                  |  | 17     |

|       |                                   | markets/ 1,000             |        |        |       |      |             |                     |        |
|-------|-----------------------------------|----------------------------|--------|--------|-------|------|-------------|---------------------|--------|
| 1.50  | Farmers Market Density            | population                 | 0      |        |       |      | 2016        |                     | 17     |
|       |                                   | stores/ 1,000              |        |        |       |      |             |                     |        |
| 1.50  | Grocery Store Density             | population                 | 0.2    |        |       |      | 2014        |                     | 17     |
|       | Low-Income and Low Access to a    |                            |        |        |       |      |             |                     |        |
| 1.33  | Grocery Store                     | percent                    | 6.3    |        |       |      | 2015        |                     | 17     |
|       | ,                                 | facilities/ 1,000          |        |        |       |      |             |                     |        |
| 1.33  | Recreation and Fitness Facilities | population                 | 0.1    |        |       |      | 2014        |                     | 17     |
| 1.25  | Drinking Water Violations         | percent                    | 1.7    |        | 6.6   |      | FY 2013-14  |                     | 4      |
| 1.17  | PBT Released                      | pounds                     | 210516 |        |       |      | 2017        |                     | 18     |
| 1.00  | Food Environment Index            |                            | 7.2    |        | 6     | 7.7  | 2018        |                     | 4      |
|       | Households with No Car and Low    |                            |        |        |       |      |             |                     |        |
| 1.00  | Access to a Grocery Store         | percent                    | 0.9    |        |       |      | 2015        |                     | 17     |
|       |                                   | <b>,</b>                   |        |        |       |      |             |                     |        |
| 4.00  | People 65+ with Low Access to a   |                            | 4.4    |        |       |      | 2015        |                     | 47     |
| 1.00  | Grocery Store                     | percent<br>stores/ 100,000 | 1.4    |        |       |      | 2015        |                     | 17     |
| 0.89  | Liquor Store Density              | population                 | 6.3    |        | 6.8   | 10.5 | 2015        |                     | 16     |
| 0.67  | Access to Exercise Opportunities  | percent                    | 90.4   |        | 80.6  | 83.1 | 2018        |                     | 4      |
|       | , ,                               | ,                          |        |        |       |      |             |                     |        |
| 0.17  | Houses Built Prior to 1950        | percent                    | 6.2    |        | 7.4   | 18.2 | 2012-2016   |                     | 1      |
|       |                                   |                            |        |        |       |      |             |                     |        |
|       |                                   |                            | HARRIS |        |       |      | MEASUREMENT |                     |        |
| SCORE | EXERCISE, NUTRITION, & WEIGHT     | UNITS                      | COUNTY | HP2020 | TEXAS | U.S. | PERIOD      | HIGH DISPARITY*     | Source |
| 2.17  | Workers who Walk to Work          | percent                    | 1.5    | 3.1    | 1.6   | 2.8  | 2012-2016   | White, non-Hispanic | 1      |
|       |                                   | stores/ 1,000              |        |        |       |      |             |                     |        |
| 2.11  | SNAP Certified Stores             | population                 | 0.6    |        |       |      | 2016        |                     | 17     |
| 2.06  | Food Insecurity Rate              | percent                    | 16.6   |        | 15.4  | 12.9 | 2016        |                     | 5      |
| 1.67  | Adults (18+ Years) Who Are Obese  | percent                    | 32     | 30.5   | 33.6  | 29.9 | 2016        |                     | 10     |
| 1.67  | Child Food Insecurity Rate        | percent                    | 23.5   |        | 23    | 17.9 | 2016        |                     | 5      |
|       |                                   | restaurants/ 1,000         |        |        |       |      |             |                     |        |
| 1.67  | Fast Food Restaurant Density      | population                 | 0.7    |        |       |      | 2014        |                     | 17     |
| 1.50  | Adults who are Overweight or      | percent                    | 66.7   |        | 68.4  | 65.2 | 2016        |                     | 10     |

|       | Obese  |                               |                  |        |       |      |                       |                 |        |
|-------|--|-------------------------------|------------------|--------|-------|------|-----------------------|-----------------|--------|
| 1.50  | Children with Low Access to a<br>Grocery Store                     | percent                       | 5.4              |        |       |      | 2015                  |                 | 17     |
| 1.50  | Farmers Market Density   | markets/ 1,000<br>population  | 0                |        |       |      | 2016                  |                 | 17     |
| 1.50  | Grocery Store Density  | stores/ 1,000<br>population   | 0.2              |        |       |      | 2014                  |                 | 17     |
| 1.42  | Adult Fruit and Vegetable<br>Consumption                           | percent                       | 18.7             |        | 17.2  |      | 2015                  |                 | 10     |
| 1.33  | Low-Income and Low Access to a<br>Grocery Store                    | percent                       | 6.3              |        |       |      | 2015                  |                 | 17     |
| 1.33  | Recreation and Fitness Facilities                                  | facilities/ 1,000 population  | 0.1              |        |       |      | 2014                  |                 | 17     |
| 1.00  | Food Environment Index   |                               | 7.2              |        | 6     | 7.7  | 2018                  |                 | 4      |
| 1.00  | Households with No Car and Low<br>Access to a Grocery Store        | percent                       | 0.9              |        |       |      | 2015                  |                 | 17     |
| 1.00  | People 65+ with Low Access to a<br>Grocery Store                   | percent                       | 1.4              |        |       |      | 2015                  |                 | 17     |
| 0.67  | Access to Exercise Opportunities                                   | percent                       | 90.4             |        | 80.6  | 83.1 | 2018                  |                 | 4      |
| SCORE | HEART DISEASE & STROKE   | UNITS                         | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 2.61  | Stroke: Medicare Population  | percent                       | 5.2              |        | 4.5   | 4    | 2015                  |                 | 3      |
| 1.89  | Heart Failure: Medicare<br>Population                              | percent                       | 16               |        | 15.5  | 13.5 | 2015                  |                 | 3      |
| 1.50  | Atrial Fibrillation: Medicare<br>Population                        | percent                       | 7.3              |        | 7.4   | 8.1  | 2015                  |                 | 3      |
| 1.44  | Hyperlipidemia: Medicare<br>Population                             | percent                       | 43.2             |        | 46.1  | 44.6 | 2015                  |                 | 3      |
| 1.42  | Age-Adjusted Death Rate due to<br>Cerebrovascular Disease (Stroke) | deaths/ 100,000<br>population | 41.5             | 34.8   | 42    | 37.3 | 2010-2014             | Black           | 12     |
| 1.33  | Ischemic Heart Disease: Medicare                                   | percent                       | 28.8             |        | 28.8  | 26.5 | 2015                  |                 | 3      |

|       | Population  |                               |                  |        |       |       |                       |                    |        |
|-------|---|-------------------------------|------------------|--------|-------|-------|-----------------------|--------------------|--------|
| 1.22  | Hypertension: Medicare<br>Population                      | percent                       | 55.5             |        | 57.5  | 55    | 2015                  |                    | 3      |
| 0.92  | Age-Adjusted Death Rate due to<br>Heart Disease           | deaths/ 100,000<br>population | 167.6            |        | 173   | 171.9 | 2010-2014             | Black, White, Male | 12     |
| SCORE | IMMUNIZATIONS & INFECTIOUS DISEASES                       | UNITS                         | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY*    | Source |
| 2.33  | Gonorrhea Incidence Rate                                  | cases/ 100,000 population     | 182.1            |        | 160.2 |       | 2017                  |                    | 12     |
| 2.33  | Syphilis Incidence Rate                                   | cases/ 100,000<br>population  | 59.3             |        | 40.6  |       | 2017                  |                    | 12     |
| 2.11  | Chlamydia Incidence Rate                                  | cases/ 100,000<br>population  | 571.4            |        | 511.6 |       | 2017                  |                    | 12     |
| 1.83  | Tuberculosis Incidence Rate                               | cases/ 100,000<br>population  | 6.6              | 1      | 4.5   |       | 2013-2017             |                    | 12     |
| 1.78  | Adults 65+ with Influenza<br>Vaccination                  | percent<br>cases/ 100,000     | 57.2             |        | 57.3  | 58.6  | 2016                  |                    | 10     |
| 1.67  | HIV Diagnosis Rate  | population                    | 26.3             |        | 16.1  |       | 2016                  |                    | 12     |
| 1.17  | Adults 65+ with Pneumonia<br>Vaccination                  | percent                       | 73.5             | 90     | 71.3  | 73.4  | 2016                  |                    | 10     |
| 1.00  | Age-Adjusted Death Rate due to<br>Influenza and Pneumonia | deaths/ 100,000<br>population | 14               |        | 14.2  | 15.2  | 2010-2014             | Black, Male        | 12     |
| SCORE | MATERNAL, FETAL & INFANT HEALTH                           | UNITS                         | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY*    | Source |
| 2.36  | Infant Mortality Rate                                     | deaths/ 1,000 live<br>births  | 6.8              | 6      | 5.8   | 6     | 2013                  |                    | 12     |
| 1.97  | Mothers who Received Early<br>Prenatal Care               | percent                       | 56.1             | 77.9   | 59.2  | 74.2  | 2013                  |                    | 12     |
| 1.92  | Infants Born to Mothers with <12<br>Years Education       | percent                       | 27.5             |        | 21.6  | 15.9  | 2013                  |                    | 12     |

| 1.81  | Babies with Low Birth Weight                            | percent                          | 8.6              | 7.8    | 8.3   | 8     | 2013                  |                 | 12     |
|-------|---|----------------------------------|------------------|--------|-------|-------|-----------------------|-----------------|--------|
| 1.61  | Babies with Very Low Birth Weight                       | percent                          | 1.5              | 1.4    | 1.4   | 1.4   | 2013                  |                 | 12     |
| 1.25  | Preterm Births  | percent                          | 11.8             | 9.4    | 12    | 11.4  | 2013                  |                 | 12     |
| 0.58  | Teen Births   | percent                          | 2.5              |        | 2.8   | 4.3   | 2014                  |                 | 12     |
|       |   |                                  |                  |        |       |       |                       |                 |        |
| SCORE | MEN'S HEALTH  | UNITS                            | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 1.53  | Age-Adjusted Death Rate due to<br>Prostate Cancer       | deaths/ 100,000<br>males         | 19.8             | 21.8   | 18.1  | 19.5  | 2011-2015             |                 | 7      |
| 1.33  | Prostate Cancer Incidence Rate                          | cases/ 100,000<br>males          | 102.5            |        | 95.4  | 109   | 2011-2015             |                 | 7      |
| 1.28  | Life Expectancy for Males                               | years                            | 76.4             |        | 76.2  | 76.7  | 2014                  |                 | 6      |
| SCORE | MENTAL HEALTH & MENTAL DISORDERS                        | UNITS                            | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 1.89  | Alzheimer's Disease or Dementia:<br>Medicare Population | percent                          | 11.4             |        | 11.7  | 9.9   | 2015                  |                 | 3      |
| 1.53  | Poor Mental Health: 5+ Days                             | percent                          | 80               |        | 81.5  |       | 2016                  |                 | 10     |
| 1.50  | Poor Mental Health: Average<br>Number of Days           | days                             | 3.7              |        | 3.4   | 3.8   | 2016                  |                 | 4      |
| 1.44  | Mental Health Provider Rate                             | providers/ 100,000<br>population | 103.7            |        | 98.8  | 214.3 | 2017                  |                 | 4      |
| 1.17  | Frequent Mental Distress                                | percent                          | 11.2             |        | 10.6  | 15    | 2016                  |                 | 4      |
| 0.94  | Age-Adjusted Death Rate due to Suicide                  | deaths/ 100,000<br>population    | 10.3             | 10.2   | 11.7  | 12.5  | 2010-2014             | White, Male     | 12     |
| 0.94  | Depression: Medicare Population                         | percent                          | 14.8             |        | 17    | 16.7  | 2015                  |                 | 3      |
| 0.64  | Age-Adjusted Death Rate due to<br>Alzheimer's Disease   | deaths/ 100,000<br>population    | 17.9             |        | 26.6  | 24.5  | 2010-2014             | White, Female   | 12     |
|       |   |                                  |                  |        |       |       |                       |                 |        |

|       |   |                 | HARRIS |        |       |      | MEASUREMENT |   |        |
|-------|---|-----------------|--------|--------|-------|------|-------------|---|--------|
| SCORE | OLDER ADULTS & AGING                        | UNITS           | COUNTY | HP2020 | TEXAS | U.S. | PERIOD      | HIGH DISPARITY*   | Source |
|       | Chronic Kidney Disease: Medicare            |                 |        |        |       |      |             |   |        |
| 2.67  | Population                                  | percent         | 20.9   |        | 19.9  | 18.1 | 2015        |   | 3      |
| 2.61  | Stroke: Medicare Population                 | percent         | 5.2    |        | 4.5   | 4    | 2015        |   | 3      |
|       | Age-Adjusted Death Rate due to              | deaths/ 100,000 |        |        |       |      |             |   |        |
| 2.06  | Falls                                       | population      | 10.4   | 7.2    | 7.4   | 8.3  | 2010-2014   | White, Male   | 12     |
| 1.94  | Cancer: Medicare Population                 | percent         | 7.6    |        | 7.1   | 7.8  | 2015        |   | 3      |
|       | Alzheimer's Disease or Dementia:            |                 |        |        |       |      |             |   |        |
| 1.89  | Medicare Population                         | percent         | 11.4   |        | 11.7  | 9.9  | 2015        |   | 3      |
|       | Heart Failure: Medicare                     |                 |        |        |       |      |             |   |        |
| 1.89  | Population                                  | percent         | 16     |        | 15.5  | 13.5 | 2015        |   | 3      |
|       | People 65+ Living Below Poverty             |                 |        |        |       |      |             | Asian, Black or<br>African American,<br>Hispanic or Latino, |        |
| 1.89  | Level                                       | percent         | 11.3   |        | 10.8  | 9.3  | 2012-2016   | Other, Female, 75+  | 1      |
|       | Adults 65+ with Influenza                   |                 |        |        |       |      |             |   |        |
| 1.78  | Vaccination                                 | percent         | 57.2   |        | 57.3  | 58.6 | 2016        |   | 10     |
| 4.70  | Osteoporosis: Medicare                      |                 | 6.0    |        | 6.5   |      | 2045        |   | 2      |
| 1.72  | Population                                  | percent         | 6.3    |        | 6.5   | 6    | 2015        |   | 3      |
| 1.67  | Diabetes: Medicare Population               | percent         | 28.1   |        | 28.2  | 26.5 | 2015        |   | 3      |
| 1.50  | Atrial Fibrillation: Medicare Population    | percent         | 7.3    |        | 7.4   | 8.1  | 2015        |   | 3      |
| 1.44  | Hyperlipidemia: Medicare<br>Population      | percent         | 43.2   |        | 46.1  | 44.6 | 2015        |   | 3      |
| 1.44  | People 65+ Living Alone                     | percent         | 24.4   |        | 23.9  | 26.4 | 2012-2016   |   | 1      |
| 1.33  | Ischemic Heart Disease: Medicare Population | percent         | 28.8   |        | 28.8  | 26.5 | 2015        |   | 3      |
|       | Hypertension: Medicare                      |                 |        |        |       |      |             |   |        |
| 1.22  | Population                                  | percent         | 55.5   |        | 57.5  | 55   | 2015        |   | 3      |
|       | Adults 65+ with Pneumonia                   |                 |        |        |       |      |             |   |        |
| 1.17  | Vaccination                                 | percent         | 73.5   | 90     | 71.3  | 73.4 | 2016        |   | 10     |
|       | People 65+ with Low Access to a             |                 |        |        |       |      |             |   |        |
| 1.00  | Grocery Store                               | percent         | 1.4    |        |       |      | 2015        |   | 17     |

| 0.94  | Asthma: Medicare Population                                       | percent                       | 7.3              |        | 8.2   | 8.2  | 2015                  |                 | 3      |
|-------|---|-------------------------------|------------------|--------|-------|------|-----------------------|-----------------|--------|
| 0.94  | Depression: Medicare Population                                   | percent                       | 14.8             |        | 17    | 16.7 | 2015                  |                 | 3      |
| 0.94  | Rheumatoid Arthritis or<br>Osteoarthritis: Medicare<br>Population | percent                       | 27.8             |        | 31.6  | 30   | 2015                  |                 | 3      |
| 0.64  | Age-Adjusted Death Rate due to<br>Alzheimer's Disease             | deaths/ 100,000<br>population | 17.9             |        | 26.6  | 24.5 | 2010-2014             | White, Female   | 12     |
| 0.39  | COPD: Medicare Population   | percent                       | 9.6              |        | 11.1  | 11.2 | 2015                  |                 | 3      |
| SCORE | OTHER CHRONIC DISEASES  | UNITS                         | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 2.67  | Chronic Kidney Disease: Medicare Population                       | percent                       | 20.9             |        | 19.9  | 18.1 | 2015                  |                 | 3      |
| 1.72  | Osteoporosis: Medicare<br>Population                              | percent                       | 6.3              |        | 6.5   | 6    | 2015                  |                 | 3      |
| 0.94  | Rheumatoid Arthritis or<br>Osteoarthritis: Medicare<br>Population | percent                       | 27.8             |        | 31.6  | 30   | 2015                  |                 | 3      |
| SCORE | PREVENTION & SAFETY   | UNITS                         | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 2.39  | Severe Housing Problems   | percent                       | 20.9             |        | 18.3  | 18.8 | 2010-2014             |                 | 4      |
| 2.06  | Age-Adjusted Death Rate due to Falls                              | deaths/ 100,000<br>population | 10.4             | 7.2    | 7.4   | 8.3  | 2010-2014             | White, Male     | 12     |
| 1.19  | Death Rate due to Drug Poisoning                                  | deaths/ 100,000<br>population | 10.2             |        | 9.8   | 16.9 | 2014-2016             |                 | 4      |
| 0.69  | Age-Adjusted Death Rate due to<br>Unintentional Injuries          | deaths/ 100,000<br>population | 36.1             | 36.4   | 37.6  | 39.2 | 2010-2014             | White, Male     | 12     |
| SCORE | PUBLIC SAFETY   | UNITS                         | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |

| 2.17  | Alcohol-Impaired Driving Deaths                                 | percent                       | 37.8             |        | 28.3  | 29.3 | 2012-2016             |                 | 4      |
|-------|---|-------------------------------|------------------|--------|-------|------|-----------------------|-----------------|--------|
| 1.67  | Violent Crime Rate  | crimes/ 100,000<br>population | 713.7            |        | 407.6 |      | 2012-2014             |                 | 4      |
| 1.11  | Substantiated Child Abuse Rate                                  | cases/ 1,000<br>children      | 5.4              |        | 8.5   |      | 2017                  |                 | 11     |
|       |   |                               |                  |        |       |      |                       |                 |        |
| SCORE | RESPIRATORY DISEASES  | UNITS                         | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 1.83  | Tuberculosis Incidence Rate                                     | cases/ 100,000<br>population  | 6.6              | 1      | 4.5   |      | 2013-2017             |                 | 12     |
| 1.78  | Adults 65+ with Influenza<br>Vaccination                        | percent                       | 57.2             |        | 57.3  | 58.6 | 2016                  |                 | 10     |
| 1.17  | Adults 65+ with Pneumonia<br>Vaccination                        | percent                       | 73.5             | 90     | 71.3  | 73.4 | 2016                  |                 | 10     |
| 1.00  | Age-Adjusted Death Rate due to<br>Influenza and Pneumonia       | deaths/ 100,000<br>population | 14               |        | 14.2  | 15.2 | 2010-2014             | Black, Male     | 12     |
| 0.94  | Asthma: Medicare Population                                     | percent                       | 7.3              |        | 8.2   | 8.2  | 2015                  |                 | 3      |
| 0.50  | Lung and Bronchus Cancer<br>Incidence Rate                      | cases/ 100,000<br>population  | 50.9             |        | 53.1  | 60.2 | 2011-2015             |                 | 7      |
| 0.39  | COPD: Medicare Population                                       | percent                       | 9.6              |        | 11.1  | 11.2 | 2015                  |                 | 3      |
| 0.33  | Age-Adjusted Death Rate due to<br>Lung Cancer                   | deaths/ 100,000<br>population | 37.5             | 45.5   | 39    | 43.4 | 2011-2015             |                 | 7      |
| SCORE | SOCIAL ENVIRONMENT  | UNITS                         | HARRIS<br>COUNTY | HP2020 | TEXAS | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 2.67  | Mean Travel Time to Work  | minutes                       | 28.6             |        | 25.9  | 26.1 | 2012-2016             | Male            | 1      |
| 2.50  | Linguistic Isolation  | percent                       | 11.8             |        | 7.9   | 4.5  | 2012-2016             |                 | 1      |
| 2.44  | Homeownership   | percent                       | 49.6             |        | 55    | 55.9 | 2012-2016             |                 | 1      |
| 2.17  | Single-Parent Households  | percent                       | 36.2             |        | 33.3  | 33.6 | 2012-2016             |                 | 1      |
| 2.14  | Median Monthly Owner Costs for<br>Households without a Mortgage | dollars                       | 534              |        | 467   | 462  | 2012-2016             |                 | 1      |

| 2.00 | Madian Hawahald Crass Bank                        | dollars                  | 937    |     | 011    | 949    | 2012 2016 |   | 1    |
|------|---|--------------------------|--------|-----|--------|--------|-----------|---|------|
| 2.08 | Median Household Gross Rent                       | aoliars                  | 937    |     | 911    | 949    | 2012-2016 |   | 1    |
|      | Mortgaged Owners Median                           |                          |        |     |        |        |           |   |      |
| 1.81 | Monthly Household Costs                           | dollars                  | 1504   |     | 1444   | 1491   | 2012-2016 |   | 1    |
| 1.75 | Persons with Health Insurance                     | percent                  | 79.3   | 100 | 81.4   |        | 2016      |   | 9    |
| 1.67 | Children Living Below Poverty<br>Level            | percent                  | 26     |     | 23.9   | 21.2   | 2012-2016 | American Indian or<br>Alaska Native, Black<br>or African American,<br>Hispanic or Latino,<br>Other, <6                                | 1    |
| 1.67 | People 25+ with a High School<br>Degree or Higher | percent                  | 80.2   |     | 82.3   | 87     | 2012-2016 | Male, 35-44, 45-64,<br>65+  | 1    |
| 1.67 | People Living Below Poverty Level                 | percent                  | 17.4   |     | 16.7   | 15.1   | 2012-2016 | American Indian or<br>Alaska Native, Black<br>or African American,<br>Hispanic or Latino,<br>Other, Female, <6,<br>6-11, 12-17, 18-24 | 1    |
| 1.67 | Total Employment Change                           | percent                  | 2.4    |     | 3.2    | 2.5    | 2014-2015 |   | 16   |
|      | Voter Turnout: Presidential                       | percent                  |        |     | 5.2    |        | 2011 2010 |   | - 10 |
| 1.67 | Election  | percent                  | 58.4   |     | 58.8   |        | 2016      |   | 14   |
| 1.44 | People 65+ Living Alone                           | percent                  | 24.4   |     | 23.9   | 26.4   | 2012-2016 |   | 1    |
| 1.11 | Substantiated Child Abuse Rate                    | cases/ 1,000<br>children | 5.4    |     | 8.5    |        | 2017      |   | 11   |
| 1.08 | Median Housing Unit Value                         | dollars                  | 145600 |     | 142700 | 184700 | 2012-2016 |   | 1    |
| 0.94 | Female Population 16+ in Civilian<br>Labor Force  | percent                  | 59.8   |     | 57.7   | 58.3   | 2012-2016 |   | 1    |
| 0.94 | Population 16+ in Civilian Labor<br>Force         | percent                  | 68.3   |     | 64.2   | 63.1   | 2012-2016 |   | 1    |
|      | People 25+ with a Bachelor's                      |                          |        |     |        |        |           | American Indian or<br>Alaska Native, Black<br>or African American,<br>Native Hawaiian or<br>Other Pacific<br>Islander, Other, 45-     |      |
| 0.67 | Degree or Higher                                  | percent                  | 30.1   |     | 28.1   | 30.3   | 2012-2016 | 64, 65+   | 1    |

|       |                                    |                 | Т      |          |       | 1     | 1           |                      |        |
|-------|------------------------------------|-----------------|--------|----------|-------|-------|-------------|----------------------|--------|
|       |                                    |                 |        |          |       |       |             | American Indian or   |        |
|       |                                    |                 |        |          |       |       |             | Alaska Native, Black |        |
|       |                                    |                 |        |          |       |       |             | or African American, |        |
|       |                                    |                 |        |          |       |       |             | Hispanic or Latino,  |        |
| 0.50  | Median Household Income            | dollars         | 55584  |          | 54727 | 55322 | 2012-2016   | Other                | 1      |
|       |                                    |                 |        |          |       |       |             | American Indian or   |        |
|       |                                    |                 |        |          |       |       |             | Alaska Native, Black |        |
|       |                                    |                 |        |          |       |       |             | or African American, |        |
|       |                                    |                 |        |          |       |       |             | Hispanic or Latino,  |        |
|       |                                    |                 |        |          |       |       |             | Native Hawaiian or   |        |
|       |                                    |                 |        |          |       |       |             | Other Pacific        |        |
|       |                                    |                 |        |          |       |       |             | Islander, Other, Two |        |
| 0.50  | Per Capita Income                  | dollars         | 29850  |          | 27828 | 29829 | 2012-2016   | or More Races        | 1      |
|       |                                    |                 |        |          |       |       |             |                      |        |
|       |                                    |                 | HARRIS |          |       |       | MEASUREMENT |                      |        |
| SCORE | SUBSTANCE ABUSE                    | UNITS           | COUNTY | HP2020   | TEXAS | U.S.  | PERIOD      | HIGH DISPARITY*      | Source |
|       |                                    | ONTIS           |        | 111 2020 |       |       | -           | THOTI DISPARTIT      |        |
| 2.17  | Alcohol-Impaired Driving Deaths    | percent         | 37.8   |          | 28.3  | 29.3  | 2012-2016   |                      | 4      |
| 1.50  | Adults who Drink Excessively       | percent         | 18.1   | 25.4     | 19.4  | 18    | 2016        |                      | 4      |
|       | Adults (18+ Years) Reporting Binge |                 |        |          |       |       |             |                      |        |
|       | Drinking Within the Last 12        |                 |        |          |       |       |             |                      |        |
| 1.28  | months                             | percent         | 16.6   | 24.2     | 17.9  | 16.9  | 2016        |                      | 10     |
|       |                                    | deaths/ 100,000 |        |          |       |       |             |                      |        |
| 1.19  | Death Rate due to Drug Poisoning   | population      | 10.2   |          | 9.8   | 16.9  | 2014-2016   |                      | 4      |
| 0.94  | Adults who Smoke                   | percent         | 12.1   | 12       | 14.3  | 17.1  | 2016        |                      | 10     |
|       |                                    | stores/ 100,000 |        |          |       |       |             |                      |        |
| 0.89  | Liquor Store Density               | population      | 6.3    |          | 6.8   | 10.5  | 2015        |                      | 16     |
|       |                                    |                 |        |          |       |       |             |                      |        |
|       |                                    |                 | HARRIS |          |       |       | MEASUREMENT |                      |        |
| SCORE | TRANSPORTATION                     | UNITS           | COUNTY | HP2020   | TEXAS | U.S.  | PERIOD      | HIGH DISPARITY*      | Source |
| SCORE |                                    | UNITS           |        | HP2020   |       |       | PERIOD      | HIGH DISPARITY       | Source |
| 2.83  | Solo Drivers with a Long Commute   | percent         | 45.8   |          | 36.9  | 34.7  | 2012-2016   |                      | 4      |
| 2.67  | Mean Travel Time to Work           | minutes         | 28.6   |          | 25.9  | 26.1  | 2012-2016   | Male                 | 1      |
| 2.17  | Workers who Walk to Work           | percent         | 1.5    | 3.1      | 1.6   | 2.8   | 2012-2016   | White, non-Hispanic  | 1      |
|       |                                    |                 |        |          |       |       |             | White, non-          |        |
| 1.44  | Workers who Drive Alone to Work    | percent         | 79.1   |          | 80.3  | 76.4  | 2012-2016   | Hispanic, 25-44, 55- | 1      |

|       |   |                            |                  |         |       |      |                       | 59   |        |
|-------|---|----------------------------|------------------|---------|-------|------|-----------------------|--|--------|
| 1.33  | Households without a Vehicle                                | percent                    | 6.4              |         | 5.6   | 9    | 2012-2016             |  | 1      |
| 1.28  | Workers Commuting by Public Transportation                  | percent                    | 2.8              | 5.5     | 1.5   | 5.1  | 2012-2016             | Hispanic or Latino,<br>Native Hawaiian or<br>Other Pacific<br>Islander, Two or<br>More Races, White,<br>non-Hispanic, Male,<br>25-44 | 1      |
| 1.20  |   | percent                    | 2.0              | 3.3     | 1.5   | 3.1  | 2012 2010             | 23 44  | 1      |
| 1.00  | Households with No Car and Low<br>Access to a Grocery Store | percent                    | 0.9              |         |       |      | 2015                  |  | 17     |
| SCORE | WELLNESS & LIFESTYLE  | UNITS                      | HARRIS<br>COUNTY | HP2020  | TEXAS | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY*  | Source |
| 1.83  | Self-Reported General Health<br>Assessment: Poor or Fair    | percent                    | 18.2             |         | 18.2  | 16   | 2016                  |  | 4      |
| 1.75  | Poor Physical Health: 5+ Days                               | percent                    | 80.6             |         | 81.5  | 10   | 2016                  |  | 10     |
| 1.67  | Insufficient Sleep  | percent                    | 33.9             |         | 32.7  | 38   | 2016                  |  | 4      |
| 1.28  | Life Expectancy for Males                                   | years                      | 76.4             |         | 76.2  | 76.7 | 2014                  |  | 6      |
| 1.17  | Frequent Physical Distress                                  | percent                    | 11.5             |         | 10.8  | 15   | 2016                  |  | 4      |
| 1.17  | Poor Physical Health: Average<br>Number of Days             | days                       | 3.6              |         | 3.5   | 3.7  | 2016                  |  | 4      |
| 1.06  | Life Expectancy for Females                                 | years                      | 81               |         | 80.8  | 81.5 | 2014                  |  | 6      |
| SCORE | WOMEN'S HEALTH  | UNITS                      | HARRIS<br>COUNTY | HP2020  | TEXAS | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY*  | Source |
| SCORE | WOIVIEN 3 REALIN  | cases/ 100,000             | COUNTY           | 1772020 | IEVAS | 0.3. | PENIOD                | THOR DISPARITY   | Source |
| 2.53  | Cervical Cancer Incidence Rate                              | females                    | 11               | 7.3     | 9.2   | 7.5  | 2011-2015             |  | 7      |
| 2.25  | Age-Adjusted Death Rate due to<br>Breast Cancer             | deaths/ 100,000<br>females | 23.2             | 20.7    | 20.2  | 20.9 | 2011-2015             | Black  | 7      |

|      |                              | cases/ 100,000 |       |       |       |           |   |
|------|------------------------------|----------------|-------|-------|-------|-----------|---|
| 1.39 | Breast Cancer Incidence Rate | females        | 113.2 | 111.7 | 124.7 | 2011-2015 | 7 |
| 1.06 | Life Expectancy for Females  | years          | 81    | 80.8  | 81.5  | 2014      | 6 |

# **Montgomery County**

|                              |  | T  | T                           |               |                             | 1                           |   |                 |                  |
|------------------------------|--|--|-----------------------------|---------------|-----------------------------|-----------------------------|---|-----------------|------------------|
| SCORE                        | ACCESS TO HEALTH SERVICES  | UNITS  | MONTGOME<br>RY COUNTY       | HP2020        | Texas                       | U.S.                        | MEASUREMENT<br>PERIOD                         | HIGH DISPARITY* | Source           |
|                              |  | providers/ 100,000   |                             |               |                             |                             |   |                 |                  |
| 2.00                         | Mental Health Provider Rate  | population   | 69                          |               | 99                          | 214                         | 2017  |                 | 4                |
|                              | Non-Physician Primary Care   | providers/ 100,000   |                             |               |                             |                             |   |                 |                  |
| 1.67                         | Provider Rate  | population   | 55                          |               | 67                          | 81                          | 2017  |                 | 4                |
|                              |  | dentists/ 100,000  |                             |               |                             |                             |   |                 |                  |
| 1.56                         | Dentist Rate   | population   | 46                          |               | 56                          | 67                          | 2016  |                 | 4                |
| 1.53                         | Children with Health Insurance   | percent  | 90.2                        | 100.0         | 90.3                        |                             | 2016  |                 | 9                |
|                              | Adults with Health Insurance: 18-  |  |                             |               |                             |                             |   |                 |                  |
| 1.47                         | 64   | percent  | 79.7                        | 100.0         | 77.4                        |                             | 2016  |                 | 9                |
| 1.47                         | Persons with Health Insurance  | percent  | 83.1                        | 100.0         | 81.4                        |                             | 2016  |                 | 9                |
|                              |  | providers/ 100,000   |                             |               |                             |                             |   |                 |                  |
| 1.22                         | Primary Care Provider Rate   | population   | 62                          |               | 60                          | 76                          | 2015  |                 | 4                |
|                              |  |  |                             |               |                             |                             |   |                 |                  |
|                              |  |  | MONTGOME                    |               |                             |                             | MEASUREMENT                                   |                 |                  |
| SCORE                        | CANCER   | LIMITS   |                             | HD2020        | Tovac                       | 11.5                        |   | HIGH DISDARITY* | Source           |
| SCORE                        | CANCER   | UNITS  | RY COUNTY                   | HP2020        | Texas                       | U.S.                        | PERIOD  | HIGH DISPARITY* | Source           |
| SCORE <b>1.72</b>            | CANCER  Cancer: Medicare Population  | UNITS percent  |                             | HP2020        | Texas                       | U.S.<br>7.8                 |   | HIGH DISPARITY* | Source<br>3      |
|                              |  |  | RY COUNTY                   |               |                             | 7.8                         | PERIOD  | HIGH DISPARITY* |                  |
|                              |  | percent  | RY COUNTY                   | HP2020<br>7.3 |                             |                             | PERIOD  | HIGH DISPARITY* |                  |
| 1.72                         | Cancer: Medicare Population  Cervical Cancer Incidence Rate  | percent<br>cases/ 100,000<br>females   | 7.8                         |               | 7.1                         | 7.8                         | PERIOD 2015                                   | HIGH DISPARITY* | 3                |
| 1.72                         | Cancer: Medicare Population  Cervical Cancer Incidence Rate  Oral Cavity and Pharynx Cancer  | percent cases/ 100,000 females cases/ 100,000  | 7.8<br>8.0                  |               | 7.1<br>9.2                  | 7.8                         | PERIOD  2015  2011-2015                       | HIGH DISPARITY* | 7                |
| 1.72                         | Cancer: Medicare Population  Cervical Cancer Incidence Rate  | percent cases/ 100,000 females  cases/ 100,000 population  | 7.8                         |               | 7.1                         | 7.8                         | PERIOD 2015                                   | HIGH DISPARITY* | 3                |
| 1.72                         | Cancer: Medicare Population  Cervical Cancer Incidence Rate  Oral Cavity and Pharynx Cancer Incidence Rate   | percent cases/ 100,000 females  cases/ 100,000 population cases/ 100,000   | 7.8<br>8.0                  |               | 7.1<br>9.2<br>10.9          | 7.8                         | PERIOD  2015  2011-2015  2011-2015            | HIGH DISPARITY* | 7                |
| 1.72<br>1.58<br>1.56         | Cancer: Medicare Population  Cervical Cancer Incidence Rate  Oral Cavity and Pharynx Cancer  | percent cases/ 100,000 females  cases/ 100,000 population  | 7.8<br>8.0                  |               | 7.1<br>9.2                  | 7.8<br>7.5<br>11.6          | PERIOD  2015  2011-2015                       | HIGH DISPARITY* | 7                |
| 1.72<br>1.58<br>1.56         | Cancer: Medicare Population  Cervical Cancer Incidence Rate  Oral Cavity and Pharynx Cancer Incidence Rate   | percent cases/ 100,000 females  cases/ 100,000 population cases/ 100,000   | 7.8<br>8.0                  |               | 7.1<br>9.2<br>10.9          | 7.8<br>7.5<br>11.6          | PERIOD  2015  2011-2015  2011-2015            | HIGH DISPARITY* | 7                |
| 1.72<br>1.58<br>1.56         | Cancer: Medicare Population  Cervical Cancer Incidence Rate  Oral Cavity and Pharynx Cancer Incidence Rate  Breast Cancer Incidence Rate   | percent cases/ 100,000 females  cases/ 100,000 population cases/ 100,000 females   | 7.8<br>8.0                  |               | 7.1<br>9.2<br>10.9          | 7.8<br>7.5<br>11.6          | PERIOD  2015  2011-2015  2011-2015            | HIGH DISPARITY* | 3<br>7<br>7      |
| 1.72<br>1.58<br>1.56<br>1.33 | Cancer: Medicare Population  Cervical Cancer Incidence Rate  Oral Cavity and Pharynx Cancer Incidence Rate  Breast Cancer Incidence Rate  Age-Adjusted Death Rate due to Prostate Cancer                                 | percent cases/ 100,000 females  cases/ 100,000 population cases/ 100,000 females  deaths/ 100,000 males                  | 7.8<br>8.0<br>12.2<br>117.6 | 7.3           | 7.1<br>9.2<br>10.9<br>111.7 | 7.8<br>7.5<br>11.6<br>124.7 | PERIOD  2015  2011-2015  2011-2015  2011-2015 | HIGH DISPARITY* | 3<br>7<br>7<br>7 |
| 1.72<br>1.58<br>1.56<br>1.33 | Cancer: Medicare Population  Cervical Cancer Incidence Rate  Oral Cavity and Pharynx Cancer Incidence Rate  Breast Cancer Incidence Rate  Age-Adjusted Death Rate due to Prostate Cancer  Age-Adjusted Death Rate due to | percent cases/ 100,000 females  cases/ 100,000 population cases/ 100,000 females  deaths/ 100,000 males  deaths/ 100,000 | 7.8<br>8.0<br>12.2<br>117.6 | 7.3           | 7.1<br>9.2<br>10.9<br>111.7 | 7.8<br>7.5<br>11.6<br>124.7 | PERIOD  2015  2011-2015  2011-2015  2011-2015 | HIGH DISPARITY* | 3<br>7<br>7<br>7 |
| 1.72<br>1.58<br>1.56<br>1.33 | Cancer: Medicare Population  Cervical Cancer Incidence Rate  Oral Cavity and Pharynx Cancer Incidence Rate  Breast Cancer Incidence Rate  Age-Adjusted Death Rate due to Prostate Cancer                                 | percent cases/ 100,000 females  cases/ 100,000 population cases/ 100,000 females  deaths/ 100,000 males                  | 7.8<br>8.0<br>12.2<br>117.6 | 7.3           | 7.1<br>9.2<br>10.9<br>111.7 | 7.8<br>7.5<br>11.6<br>124.7 | PERIOD  2015  2011-2015  2011-2015  2011-2015 | HIGH DISPARITY* | 3<br>7<br>7<br>7 |

<sup>117</sup> Memorial Hermann The Woodlands Medical Center CHNA 2019

|       | Lung Cancer   | population                    |                       |        |       |       |                       |                 |        |
|-------|---|-------------------------------|-----------------------|--------|-------|-------|-----------------------|-----------------|--------|
| 0.83  | All Cancer Incidence Rate                                       | cases/ 100,000<br>population  | 398.9                 |        | 401.3 | 441.2 | 2011-2015             |                 | 7      |
| 0.83  | Lung and Bronchus Cancer<br>Incidence Rate                      | cases/ 100,000<br>population  | 56.4                  |        | 53.1  | 60.2  | 2011-2015             |                 | 7      |
| 0.78  | Age-Adjusted Death Rate due to Colorectal Cancer                | deaths/ 100,000<br>population | 14.4                  | 14.5   | 14.4  | 14.5  | 2011-2015             |                 | 7      |
| 0.67  | Colorectal Cancer Incidence Rate                                | cases/ 100,000<br>population  | 36.6                  | 39.9   | 38.1  | 39.2  | 2011-2015             |                 | 7      |
| 0.67  | Prostate Cancer Incidence Rate                                  | cases/ 100,000<br>males       | 88.7                  |        | 95.4  | 109.0 | 2011-2015             |                 | 7      |
| 0.61  | Age-Adjusted Death Rate due to Cancer                           | deaths/ 100,000<br>population | 156.0                 | 161.4  | 156.4 | 163.5 | 2011-2015             | Male            | 7      |
| SCORE | CHILDREN'S HEALTH   | UNITS                         | MONTGOME<br>RY COUNTY | HP2020 | Texas | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 1.67  | Children with Low Access to a Grocery Store                     | percent                       | 5.6                   |        |       |       | 2015                  |                 | 16     |
| 1.53  | Children with Health Insurance                                  | percent                       | 90.2                  | 100.0  | 90.3  |       | 2016                  |                 | 9      |
| 1.17  | Child Food Insecurity Rate                                      | percent                       | 21.2                  |        | 23.0  | 17.9  | 2016                  |                 | 5      |
| 1.11  | Substantiated Child Abuse Rate                                  | cases/ 1,000<br>children      | 5.5                   |        | 8.5   |       | 2017                  |                 | 10     |
| SCORE | ECONOMY   | UNITS                         | MONTGOME<br>RY COUNTY | HP2020 | Texas | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 2.58  | Median Household Gross Rent                                     | dollars                       | 1077                  |        | 911   | 949   | 2012-2016             |                 | 1      |
| 2.58  | Median Monthly Owner Costs for<br>Households without a Mortgage | dollars                       | 531                   |        | 467   | 462   | 2012-2016             |                 | 1      |

|      |   |                             | ı      | 1 |        |        |           | I  | 1  |
|------|---|-----------------------------|--------|---|--------|--------|-----------|--|----|
| 2.19 | Mortgaged Owners Median<br>Monthly Household Costs          | dollars                     | 1635   |   | 1444   | 1491   | 2012-2016 |  | 1  |
| 2.00 | Female Population 16+ in Civilian<br>Labor Force            | percent                     | 53.6   |   | 57.7   | 58.3   | 2012-2016 |  | 1  |
| 1.89 | SNAP Certified Stores                                       | stores/ 1,000<br>population | 0.5    |   |        |        | 2016      |  | 16 |
| 1.50 | Population 16+ in Civilian Labor<br>Force                   | percent                     | 63.7   |   | 64.2   | 63.1   | 2012-2016 |  | 1  |
| 1.33 | Food Insecurity Rate  | percent                     | 14.6   |   | 15.4   | 12.9   | 2016      |  | 5  |
| 1.33 | Low-Income and Low Access to a<br>Grocery Store             | percent                     | 5.9    |   |        |        | 2015      |  | 16 |
| 1.28 | Severe Housing Problems                                     | percent                     | 16.0   |   | 18.3   | 18.8   | 2010-2014 |  | 4  |
| 1.28 | Unemployed Workers in Civilian<br>Labor Force               | percent                     | 3.8    |   | 4.0    | 4.1    | July 2018 |  | 14 |
| 1.17 | Child Food Insecurity Rate                                  | percent                     | 21.2   |   | 23.0   | 17.9   | 2016      |  | 5  |
| 1.06 | Renters Spending 30% or More of<br>Household Income on Rent | percent                     | 39.4   |   | 48.0   | 47.3   | 2012-2016 |  | 1  |
| 1.00 | Total Employment Change                                     | percent                     | 3.5    |   | 3.2    | 2.5    | 2014-2015 |  | 15 |
| 0.86 | Persons with Disability Living in Poverty                   | percent                     | 17.9   |   | 24.2   | 26.6   | 2016      |  | 1  |
| 0.78 | People 65+ Living Below Poverty<br>Level                    | percent                     | 7.7    |   | 10.8   | 9.3    | 2012-2016 | Black or African<br>American, Hispanic<br>or Latino, Other | 1  |
| 0.75 | Persons with Disability Living in Poverty (5-year)          | percent                     | 19.1   |   | 25.1   | 27.6   | 2012-2016 |  | 1  |
| 0.61 | Homeownership   | percent                     | 65.6   |   | 55.0   | 55.9   | 2012-2016 |  | 1  |
| 0.58 | Median Housing Unit Value                                   | dollars                     | 190000 |   | 142700 | 184700 | 2012-2016 |  | 1  |
| 0.56 | Families Living Below Poverty<br>Level                      | percent                     | 8.3    |   | 13.0   | 11.0   | 2012-2016 | Black or African<br>American, Hispanic                     | 1  |

|       |   |                   |                       |        |       |       |                       | or Latino, Other   |        |
|-------|---|-------------------|-----------------------|--------|-------|-------|-----------------------|--|--------|
| 0.56  | Households with Cash Public Assistance Income       | percent           | 1.1                   |        | 1.6   | 2.7   | 2012-2016             |  | 1      |
| 0.56  | People Living 200% Above<br>Poverty Level           | percent           | 73.0                  |        | 62.8  | 66.4  | 2012-2016             |  | 1      |
| 0.56  | Students Eligible for the Free<br>Lunch Program     | percent           | 35.1                  |        | 52.9  | 42.6  | 2015-2016             |  | 8      |
| 0.39  | Median Household Income                             | dollars           | 70805                 |        | 54727 | 55322 | 2012-2016             | Black or African<br>American, Hispanic<br>or Latino, Other,<br>Two or More Races   | 1      |
| 0.17  | Children Living Below Poverty<br>Level              | percent           | 14.8                  |        | 23.9  | 21.2  | 2012-2016             | Hispanic or Latino, Other  | 1      |
| 0.17  | Homeowner Vacancy Rate                              | percent           | 1.2                   |        | 1.6   | 1.8   | 2012-2016             | Other  | 1      |
| 0.17  | People Living Below Poverty Level                   | percent           | 11.0                  |        | 16.7  | 15.1  | 2012-2016             | 12-17, 18-24, 6-11,<br><6 Black or African<br>American, Hispanic<br>or Latino, Other                                     | 1      |
| 0.17  | Per Capita Income                                   | dollars           | 35912                 |        | 27828 | 29829 | 2012-2016             | American Indian or<br>Alaska Native, Black<br>or African<br>American, Hispanic<br>or Latino, Other,<br>Two or More Races | 1      |
| 0.17  | rei capita income                                   | uonars            | 33912                 |        | 27020 | 23023 | 2012-2010             | TWO OF MIOTE Races   | 1      |
| SCORE | EDUCATION   | UNITS             | MONTGOME<br>RY COUNTY | HP2020 | Texas | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY*  | Source |
| 1.89  | Student-to-Teacher Ratio                            | students/ teacher | 16.2                  |        | 15.4  | 17.7  | 2015-2016             |  | 8      |
| 1.22  | People 25+ with a High School<br>Degree or Higher   | percent           | 86.8                  |        | 82.3  | 87.0  | 2012-2016             | American Indian or<br>Alaska Native  | 1      |
| 1.08  | Infants Born to Mothers with <12<br>Years Education | percent           | 17.6                  |        | 21.6  | 15.9  | 2013                  |  | 11     |

| 1.00  | High School Drop Out Rate                                    | percent            | 0.9       |        | 2.0   |      | 2016        |  | 12     |
|-------|--|--------------------|-----------|--------|-------|------|-------------|--|--------|
|       | People 25+ with a Bachelor's                                 |                    |           |        |       |      |             | 25-34, 65+<br>American Indian or<br>Alaska Native,<br>Other, Two or More |        |
| 0.33  | Degree or Higher   | percent            | 33.0      |        | 28.1  | 30.3 | 2012-2016   | Races  | 1      |
|       |  |                    |           |        |       |      |             |  |        |
|       |  |                    |           |        |       |      |             |  |        |
|       |  |                    | MONTGOME  |        |       |      | MEASUREMENT |  |        |
| SCORE | ENVIRONMENT  | UNITS              | RY COUNTY | HP2020 | Texas | U.S. | PERIOD      | HIGH DISPARITY*  | Source |
|       |  | stores/ 1,000      |           |        |       |      |             |  |        |
| 1.89  | SNAP Certified Stores  | population         | 0.5       |        |       |      | 2016        |  | 16     |
|       |  | stores/ 1,000      |           |        |       |      |             |  |        |
| 1.83  | Grocery Store Density  | population         | 0.1       |        |       |      | 2014        |  | 16     |
| 1.75  | Annual Ozone Air Quality                                     | grade              | F         |        |       |      | 2014-2016   |  | 2      |
|       | Children with Low Access to a                                |                    |           |        |       |      |             |  |        |
| 1.67  | Grocery Store  | percent            | 5.6       |        |       |      | 2015        |  | 16     |
|       |  | markets/ 1,000     |           |        |       |      |             |  |        |
| 1.50  | Farmers Market Density                                       | population         | 0.0       |        |       |      | 2016        |  | 16     |
| 4.50  | Foot Food Boots wort Done                                    | restaurants/ 1,000 | 0.6       |        |       |      | 2014        |  | 1.0    |
| 1.50  | Fast Food Restaurant Density Recognized Carcinogens Released | population         | 0.6       |        |       |      | 2014        |  | 16     |
| 1.39  | into Air   | pounds             | 16762     |        |       |      | 2017        |  | 17     |
| 1.33  | IIICO / III  | pounus             | 10702     |        |       |      | 2017        |  | 17     |
|       | Low-Income and Low Access to a                               |                    |           |        |       |      |             |  |        |
| 1.33  | Grocery Store  | percent            | 5.9       |        |       |      | 2015        |  | 16     |
|       | ,  | ,                  |           |        |       |      |             |  |        |
|       | People 65+ with Low Access to a                              |                    |           |        |       |      |             |  |        |
| 1.33  | Grocery Store  | percent            | 2.5       |        |       |      | 2015        |  | 16     |
|       |  | facilities/ 1,000  |           |        |       |      |             |  |        |
| 1.33  | Recreation and Fitness Facilities                            | population         | 0.1       |        |       |      | 2014        |  | 16     |
| 1.28  | Severe Housing Problems                                      | percent            | 16.0      |        | 18.3  | 18.8 | 2010-2014   |  | 4      |
| 1.25  | Drinking Water Violations                                    | percent            | 1.7       |        | 6.6   |      | FY 2013-14  |  | 4      |
| 1.22  | Food Environment Index                                       |                    | 7.5       |        | 6.0   | 7.7  | 2018        |  | 4      |

| 1.17  | Households with No Car and Low Access to a Grocery Store | percent                     | 1.5                   |        |       |      | 2015                  |                 | 16     |
|-------|--|-----------------------------|-----------------------|--------|-------|------|-----------------------|-----------------|--------|
|       | ·  | percent                     | -                     |        |       |      |                       |                 | 10     |
| 1.00  | Access to Exercise Opportunities                         | percent                     | 82.7                  |        | 80.6  | 83.1 | 2018                  |                 | 4      |
| 0.57  |  | stores/ 100,000             | 6.0                   |        | 6.0   | 40.5 | 2015                  |                 | 45     |
| 0.67  | Liquor Store Density                                     | population                  | 6.3                   |        | 6.8   | 10.5 | 2015                  |                 | 15     |
| 0.39  | Houses Built Prior to 1950                               | percent                     | 1.2                   |        | 7.4   | 18.2 | 2012-2016             |                 | 1      |
|       |  |                             |                       |        |       |      |                       |                 |        |
| SCORE | EXERCISE, NUTRITION, & WEIGHT                            | UNITS                       | MONTGOME<br>RY COUNTY | HP2020 | Texas | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 2.78  | Workers who Walk to Work                                 | percent                     | 1.0                   | 3.1    | 1.6   | 2.8  | 2012-2016             |                 | 1      |
|       | _  | stores/ 1,000               |                       |        |       |      |                       |                 |        |
| 1.89  | SNAP Certified Stores                                    | population                  | 0.5                   |        |       |      | 2016                  |                 | 16     |
| 1.83  | Grocery Store Density                                    | stores/ 1,000<br>population | 0.1                   |        |       |      | 2014                  |                 | 16     |
| 1.65  | Children with Low Access to a                            | ρομαιατίστ                  | 0.1                   |        |       |      | 2014                  |                 | 10     |
| 1.67  | Grocery Store  | percent                     | 5.6                   |        |       |      | 2015                  |                 | 16     |
|       |  | markets/ 1,000              |                       |        |       |      |                       |                 |        |
| 1.50  | Farmers Market Density                                   | population                  | 0.0                   |        |       |      | 2016                  |                 | 16     |
|       |  | restaurants/ 1,000          |                       |        |       |      |                       |                 |        |
| 1.50  | Fast Food Restaurant Density                             | population                  | 0.6                   |        |       |      | 2014                  |                 | 16     |
| 1.33  | Food Insecurity Rate                                     | percent                     | 14.6                  |        | 15.4  | 12.9 | 2016                  |                 | 5      |
| 1.33  | Low-Income and Low Access to a<br>Grocery Store          | percent                     | 5.9                   |        |       |      | 2015                  |                 | 16     |
| 1.33  | Grocery Store  | ρειτεπι                     | 5.9                   |        |       |      | 2013                  |                 | 10     |
|       | People 65+ with Low Access to a                          |                             |                       |        |       |      |                       |                 |        |
| 1.33  | Grocery Store  | percent                     | 2.5                   |        |       |      | 2015                  |                 | 16     |
|       |  | facilities/ 1,000           |                       |        |       |      |                       |                 |        |
| 1.33  | Recreation and Fitness Facilities                        | population                  | 0.1                   |        |       |      | 2014                  |                 | 16     |
| 1.22  | Food Environment Index                                   |                             | 7.5                   |        | 6.0   | 7.7  | 2018                  |                 | 4      |
| 1.17  | Child Food Insecurity Rate                               | percent                     | 21.2                  |        | 23.0  | 17.9 | 2016                  |                 | 5      |

|       |                                  |                 |                       | 1      |       | T     |                       |                 | 1      |
|-------|----------------------------------|-----------------|-----------------------|--------|-------|-------|-----------------------|-----------------|--------|
|       | Households with No Car and Low   |                 |                       |        |       |       |                       |                 |        |
| 1.17  | Access to a Grocery Store        | percent         | 1.5                   |        |       |       | 2015                  |                 | 16     |
| 1.00  | Access to Exercise Opportunities | percent         | 82.7                  |        | 80.6  | 83.1  | 2018                  |                 | 4      |
|       |                                  |                 |                       |        |       |       |                       |                 |        |
|       |                                  |                 |                       |        |       |       |                       |                 |        |
| SCORE | HEART DISEASE & STROKE           | UNITS           | MONTGOME<br>RY COUNTY | HP2020 | Toyor | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Course |
| SCORE |                                  | UNITS           | RY COUNTY             | HP2020 | Texas | 0.5.  | PERIOD                | HIGH DISPARITY  | Source |
| 2.44  | Atrial Fibrillation: Medicare    |                 | 0.0                   |        | 7.4   | 0.4   | 2015                  |                 |        |
| 2.44  | Population                       | percent         | 8.8                   |        | 7.4   | 8.1   | 2015                  |                 | 3      |
| 2.28  | Stroke: Medicare Population      | percent         | 4.6                   |        | 4.5   | 4.0   | 2015                  |                 | 3      |
|       | Hyperlipidemia: Medicare         |                 |                       |        |       |       |                       |                 |        |
| 1.94  | Population                       | percent         | 46.3                  |        | 46.1  | 44.6  | 2015                  |                 | 3      |
|       | Hypertension: Medicare           |                 |                       |        |       |       |                       |                 |        |
| 1.61  | Population                       | percent         | 56.0                  |        | 57.5  | 55.0  | 2015                  |                 | 3      |
|       |                                  |                 |                       |        |       |       |                       |                 |        |
|       | Age-Adjusted Death Rate due to   | deaths/ 100,000 |                       |        |       |       |                       |                 |        |
| 1.25  | Cerebrovascular Disease (Stroke) | population      | 38.5                  | 34.8   | 42.0  | 37.3  | 2010-2014             |                 | 11     |
|       |                                  |                 |                       |        |       |       |                       |                 |        |
|       | Age-Adjusted Death Rate due to   | deaths/ 100,000 |                       |        |       |       |                       |                 |        |
| 1.25  | Heart Disease                    | population      | 173.2                 |        | 173.0 | 171.9 | 2010-2014             | Male Black      | 11     |
|       | Heart Failure: Medicare          |                 |                       |        |       |       |                       |                 |        |
| 1.22  | Population                       | percent         | 14.6                  |        | 15.5  | 13.5  | 2015                  |                 | 3      |
|       |                                  |                 |                       |        |       |       |                       |                 |        |
|       | Ischemic Heart Disease: Medicare |                 |                       |        | •••   | • • • |                       |                 |        |
| 1.17  | Population                       | percent         | 28.6                  |        | 28.8  | 26.5  | 2015                  |                 | 3      |
|       |                                  |                 |                       |        |       |       |                       |                 |        |
|       |                                  |                 |                       |        |       |       |                       |                 |        |
|       | IMMUNIZATIONS & INFECTIOUS       |                 | MONTGOME              |        |       |       | MEASUREMENT           |                 |        |
| SCORE | DISEASES                         | UNITS           | RY COUNTY             | HP2020 | Texas | U.S.  | PERIOD                | HIGH DISPARITY* | Source |
|       |                                  | cases/ 100,000  |                       |        |       |       |                       |                 |        |
| 1.67  | Syphilis Incidence Rate          | population      | 13.1                  |        | 40.6  |       | 2017                  |                 | 11     |
|       |                                  | cases/ 100,000  |                       |        |       |       |                       |                 |        |
| 1.50  | Chlamydia Incidence Rate         | population      | 265.4                 |        | 511.6 |       | 2017                  |                 | 11     |
| 1.44  | HIV Diagnosis Rate               | cases/ 100,000  | 7.7                   |        | 16.1  |       | 2016                  |                 | 11     |

|        |   | population                    |                       |        |        |       |                       |                 |        |
|--------|---|-------------------------------|-----------------------|--------|--------|-------|-----------------------|-----------------|--------|
|        |   | cases/ 100,000                |                       |        |        |       |                       |                 |        |
| 1.39   | Tuberculosis Incidence Rate                               | population                    | 1.8                   | 1.0    | 4.5    |       | 2013-2017             |                 | 11     |
| 1.28   | Gonorrhea Incidence Rate                                  | cases/ 100,000<br>population  | 52.4                  |        | 160.2  |       | 2017                  |                 | 11     |
| 0.67   | Age-Adjusted Death Rate due to<br>Influenza and Pneumonia | deaths/ 100,000<br>population | 10.8                  |        | 14.2   | 15.2  | 2010-2014             |                 | 11     |
| SCORE  | MATERNAL, FETAL & INFANT<br>HEALTH                        | UNITS                         | MONTGOME<br>RY COUNTY | HP2020 | Texas  | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
|        | Mothers who Received Early                                |                               |                       |        |        |       |                       |                 |        |
| 1.75   | Prenatal Care   | percent                       | 60.7                  | 77.9   | 59.2   | 74.2  | 2013                  |                 | 11     |
| 1.08   | Infants Born to Mothers with <12<br>Years Education       | percent                       | 17.6                  |        | 21.6   | 15.9  | 2013                  |                 | 11     |
| 0.83   | Babies with Very Low Birth<br>Weight                      | percent                       | 1.1                   | 1.4    | 1.4    | 1.4   | 2013                  |                 | 11     |
| 0.75   | Preterm Births  | percent                       | 10.4                  | 9.4    | 12.0   | 11.4  | 2013                  |                 | 11     |
| 0.47   | Babies with Low Birth Weight                              | percent                       | 6.6                   | 7.8    | 8.3    | 8.0   | 2013                  |                 | 11     |
| 0.47   | Infant Mortality Rate                                     | deaths/ 1,000 live<br>births  | 4.5                   | 6.0    | 5.8    | 6.0   | 2013                  |                 | 11     |
| 0.42   | Teen Births   | percent                       | 2.0                   |        | 2.8    | 4.3   | 2014                  |                 | 11     |
|        |   |                               |                       |        |        |       |                       |                 |        |
| SCORE  | MEN'S HEALTH  | UNITS                         | MONTGOME<br>RY COUNTY | HP2020 | Texas  | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 333112 |   |                               | 230,111               | 2020   | . 5,43 | 2.3.  |                       |                 | 233166 |
| 1.19   | Age-Adjusted Death Rate due to<br>Prostate Cancer         | deaths/ 100,000<br>males      | 17.8                  | 21.8   | 18.1   | 19.5  | 2011-2015             |                 | 7      |
| 1.00   | Life Expectancy for Males                                 | years                         | 76.7                  |        | 76.2   | 76.7  | 2014                  |                 | 6      |
| 0.67   | Prostate Cancer Incidence Rate                            | cases/ 100,000<br>males       | 88.7                  |        | 95.4   | 109.0 | 2011-2015             |                 | 7      |

| SCORE | MENTAL HEALTH & MENTAL DISORDERS                        | UNITS                            | MONTGOME<br>RY COUNTY | HP2020 | Texas | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
|-------|---|----------------------------------|-----------------------|--------|-------|------|-----------------------|-----------------|--------|
|       | Age-Adjusted Death Rate due to                          | deaths/ 100,000                  |                       |        |       |      |                       |                 |        |
| 2.28  | Suicide   | population                       | 14.6                  | 10.2   | 11.7  | 12.5 | 2010-2014             | Male            | 11     |
| 2.00  | Mental Health Provider Rate                             | providers/ 100,000<br>population | 69                    |        | 99    | 214  | 2017                  |                 | 4      |
| 1.67  | Alzheimer's Disease or Dementia:<br>Medicare Population | percent                          | 10.7                  |        | 11.7  | 9.9  | 2015                  |                 | 3      |
| 1.28  | Depression: Medicare Population                         | percent                          | 15.9                  |        | 17.0  | 16.7 | 2015                  |                 | 3      |
| 0.67  | Frequent Mental Distress                                | percent                          | 10.2                  |        | 10.6  | 15.0 | 2016                  |                 | 4      |
| 0.67  | Poor Mental Health: Average<br>Number of Days           | days                             | 3.3                   |        | 3.4   | 3.8  | 2016                  |                 | 4      |
| 0.64  | Age-Adjusted Death Rate due to<br>Alzheimer's Disease   | deaths/ 100,000<br>population    | 18.8                  |        | 26.6  | 24.5 | 2010-2014             |                 | 11     |
| SCORE | OLDER ADULTS & AGING                                    | UNITS                            | MONTGOME<br>RY COUNTY | HP2020 | Texas | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
| 2.44  | Atrial Fibrillation: Medicare Population                | percent                          | 8.8                   |        | 7.4   | 8.1  | 2015                  |                 | 3      |
| 2.28  | Stroke: Medicare Population                             | percent                          | 4.6                   |        | 4.5   | 4.0  | 2015                  |                 | 3      |
| 2.00  | Chronic Kidney Disease: Medicare Population             | percent                          | 18.3                  |        | 19.9  | 18.1 | 2015                  |                 | 3      |
| 1.94  | Hyperlipidemia: Medicare<br>Population                  | percent                          | 46.3                  |        | 46.1  | 44.6 | 2015                  |                 | 3      |
| 1.72  | Cancer: Medicare Population                             | percent                          | 7.8                   |        | 7.1   | 7.8  | 2015                  |                 | 3      |
| 1.67  | Alzheimer's Disease or Dementia:<br>Medicare Population | percent                          | 10.7                  |        | 11.7  | 9.9  | 2015                  |                 | 3      |

| 1.61  | Hypertension: Medicare                   | norcont         | 56.0                  |          | 57.5  | 55.0 | 2015                  |                                     | 3      |
|-------|--|-----------------|-----------------------|----------|-------|------|-----------------------|-------------------------------------|--------|
|       | Population                               | percent         |                       |          |       |      |                       |                                     | 3      |
| 1.39  | COPD: Medicare Population                | percent         | 11.7                  |          | 11.1  | 11.2 | 2015                  |                                     | 3      |
|       | People 65+ with Low Access to a          |                 |                       |          |       |      |                       |                                     |        |
| 1.33  | Grocery Store                            | percent         | 2.5                   |          |       |      | 2015                  |                                     | 16     |
|       | Rheumatoid Arthritis or                  | ,               |                       |          |       |      |                       |                                     |        |
|       | Osteoarthritis: Medicare                 |                 |                       |          |       |      |                       |                                     |        |
| 1.33  | Population                               | percent         | 28.5                  |          | 31.6  | 30.0 | 2015                  |                                     | 3      |
| 1.28  | Asthma: Medicare Population              | percent         | 7.7                   |          | 8.2   | 8.2  | 2015                  |                                     | 3      |
| 1.28  | Depression: Medicare Population          | percent         | 15.9                  |          | 17.0  | 16.7 | 2015                  |                                     | 3      |
|       | Heart Failure: Medicare                  |                 |                       |          |       |      |                       |                                     |        |
| 1.22  | Population Osteoporosis: Medicare        | percent         | 14.6                  |          | 15.5  | 13.5 | 2015                  |                                     | 3      |
| 1.22  | Population                               | percent         | 5.8                   |          | 6.5   | 6.0  | 2015                  |                                     | 3      |
|       | ·  | •               |                       |          |       |      |                       |                                     |        |
|       | Ischemic Heart Disease: Medicare         |                 |                       |          |       |      |                       |                                     |        |
| 1.17  | Population                               | percent         | 28.6                  |          | 28.8  | 26.5 | 2015                  |                                     | 3      |
| 0.94  | Diabetes: Medicare Population            | percent         | 24.8                  |          | 28.2  | 26.5 | 2015                  |                                     | 3      |
|       |  |                 |                       |          |       |      |                       | Black or African                    |        |
| 0.78  | People 65+ Living Below Poverty<br>Level | percent         | 7.7                   |          | 10.8  | 9.3  | 2012-2016             | American, Hispanic or Latino, Other | 1      |
| 0.78  | Level                                    | регсепс         | 7.7                   |          | 10.0  | 9.5  | 2012-2010             | or Latino, Other                    | 1      |
|       | Age-Adjusted Death Rate due to           | deaths/ 100,000 |                       |          |       |      |                       |                                     |        |
| 0.64  | Alzheimer's Disease                      | population      | 18.8                  |          | 26.6  | 24.5 | 2010-2014             |                                     | 11     |
|       | Age-Adjusted Death Rate due to           | deaths/ 100,000 |                       |          |       |      |                       |                                     |        |
| 0.50  | Falls                                    | population      | 5.1                   | 7.2      | 7.4   | 8.3  | 2010-2014             |                                     | 11     |
| 0.50  | People 65+ Living Alone                  | percent         | 21.5                  |          | 23.9  | 26.4 | 2012-2016             |                                     | 1      |
|       |  |                 |                       |          |       |      |                       |                                     |        |
|       |  |                 |                       |          |       |      |                       |                                     |        |
| SCORE | OTHER CHRONIC DISEASES                   | UNITS           | MONTGOME<br>RY COUNTY | HP2020   | Texas | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY*                     | Source |
| SCORE | Chronic Kidney Disease: Medicare         | 0.4113          | 655.411               | 111 2020 | icaus | 0.5. | i Eiliob              | 1311 2.317                          | Jource |
| 2.00  | Population                               | percent         | 18.3                  |          | 19.9  | 18.1 | 2015                  |                                     | 3      |

|       | Rheumatoid Arthritis or           |                            |           |        |       |      |             |                 |        |
|-------|-----------------------------------|----------------------------|-----------|--------|-------|------|-------------|-----------------|--------|
|       | Osteoarthritis: Medicare          |                            |           |        |       |      |             |                 |        |
| 1.33  | Population                        | percent                    | 28.5      |        | 31.6  | 30.0 | 2015        |                 | 3      |
|       | Osteoporosis: Medicare            | •                          |           |        |       |      |             |                 |        |
| 1.22  | Population                        | percent                    | 5.8       |        | 6.5   | 6.0  | 2015        |                 | 3      |
|       |                                   |                            |           |        |       |      |             |                 |        |
|       |                                   |                            |           |        |       |      |             |                 |        |
|       |                                   |                            | MONTGOME  |        |       |      | MEASUREMENT |                 |        |
| SCORE | PREVENTION & SAFETY               | UNITS                      | RY COUNTY | HP2020 | Texas | U.S. | PERIOD      | HIGH DISPARITY* | Source |
| 1 20  | Carrage Harrison Breaklance       |                            | 16.0      |        | 10.2  | 10.0 | 2010 2014   |                 | 4      |
| 1.28  | Severe Housing Problems           | percent<br>deaths/ 100,000 | 16.0      |        | 18.3  | 18.8 | 2010-2014   |                 | 4      |
| 1.08  | Death Rate due to Drug Poisoning  | population                 | 10.6      |        | 9.8   | 16.9 | 2014-2016   |                 | 4      |
| 1.00  | Death Nate due to Drug i olsoning | ροραιατίστ                 | 10.0      |        | 5.0   | 10.5 | 2014 2010   |                 | 7      |
|       | Age-Adjusted Death Rate due to    | deaths/ 100,000            |           |        |       |      |             |                 |        |
| 0.53  | Unintentional Injuries            | population                 | 34.1      | 36.4   | 37.6  | 39.2 | 2010-2014   | Male            | 11     |
|       | Age-Adjusted Death Rate due to    | deaths/ 100,000            |           |        |       |      |             |                 |        |
| 0.50  | Falls                             | population                 | 5.1       | 7.2    | 7.4   | 8.3  | 2010-2014   |                 | 11     |
|       |                                   |                            |           |        |       |      |             |                 |        |
|       |                                   |                            |           |        |       |      |             |                 |        |
|       |                                   |                            | MONTGOME  |        |       |      | MEASUREMENT |                 |        |
| SCORE | PUBLIC SAFETY                     | UNITS                      | RY COUNTY | HP2020 | Texas | U.S. | PERIOD      | HIGH DISPARITY* | Source |
| 2.06  | Alcohol-Impaired Driving Deaths   | percent                    | 32.9      |        | 28.3  | 29.3 | 2012-2016   |                 | 4      |
| 2.00  | Alcohol-impaired briving beatils  | cases/ 1,000               | 32.9      |        | 20.3  | 29.5 | 2012-2010   |                 | 4      |
| 1.11  | Substantiated Child Abuse Rate    | children                   | 5.5       |        | 8.5   |      | 2017        |                 | 10     |
|       |                                   | crimes/ 100,000            |           |        |       |      |             |                 |        |
| 0.83  | Violent Crime Rate                | population                 | 171.2     |        | 407.6 |      | 2012-2014   |                 | 4      |
|       |                                   |                            |           |        |       |      |             |                 |        |
|       |                                   |                            |           |        |       |      |             |                 |        |
|       |                                   |                            | MONTGOME  |        |       |      | MEASUREMENT |                 |        |
| SCORE | RESPIRATORY DISEASES              | UNITS                      | RY COUNTY | HP2020 | Texas | U.S. | PERIOD      | HIGH DISPARITY* | Source |
| 1 20  | CORD: Madigara Danulatia          | norcont                    |           |        | 11.1  | 11.2 | 2015        |                 | 1      |
| 1.39  | COPD: Medicare Population         | percent<br>cases/ 100,000  | 11.7      |        | 11.1  | 11.2 | 2015        |                 | 3      |
| 1.39  | Tuberculosis Incidence Rate       | population                 | 1.8       | 1.0    | 4.5   |      | 2013-2017   |                 | 11     |
|       |                                   | population                 |           | 1.0    |       |      |             |                 |        |
| 1.28  | Asthma: Medicare Population       | percent                    | 7.7       |        | 8.2   | 8.2  | 2015        |                 | 3      |

| 0.94  | Age-Adjusted Death Rate due to<br>Lung Cancer                   | deaths/ 100,000<br>population | 42.4                  | 45.5   | 39.0  | 43.4 | 2011-2015             |                                     | 7      |
|-------|---|-------------------------------|-----------------------|--------|-------|------|-----------------------|-------------------------------------|--------|
| 0.54  | Lung and Bronchus Cancer  | cases/ 100,000                | 72.7                  | 43.3   | 33.0  | 73.7 | 2011 2013             |                                     | ,      |
| 0.83  | Incidence Rate  | population                    | 56.4                  |        | 53.1  | 60.2 | 2011-2015             |                                     | 7      |
|       | Age-Adjusted Death Rate due to                                  | deaths/ 100,000               |                       |        |       |      |                       |                                     |        |
| 0.67  | Influenza and Pneumonia   | population                    | 10.8                  |        | 14.2  | 15.2 | 2010-2014             |                                     | 11     |
| SCORE | SOCIAL ENVIRONMENT  | UNITS                         | MONTGOME<br>RY COUNTY | HP2020 | Texas | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY*                     | Source |
| 2.61  | Mean Travel Time to Work  | minutes                       | 32.5                  |        | 25.9  | 26.1 | 2012-2016             | Male                                | 1      |
| 2.58  | Median Household Gross Rent                                     | dollars                       | 1077                  |        | 911   | 949  | 2012-2016             | ividic                              | 1      |
| 2.58  | Median Monthly Owner Costs for<br>Households without a Mortgage | dollars                       | 531                   |        | 467   | 462  | 2012-2016             |                                     | 1      |
| 2.19  | Mortgaged Owners Median<br>Monthly Household Costs              | dollars                       | 1635                  |        | 1444  | 1491 | 2012-2016             |                                     | 1      |
| 2.00  | Female Population 16+ in Civilian<br>Labor Force                | percent                       | 53.6                  |        | 57.7  | 58.3 | 2012-2016             |                                     | 1      |
| 1.50  | Population 16+ in Civilian Labor<br>Force                       | percent                       | 63.7                  |        | 64.2  | 63.1 | 2012-2016             |                                     | 1      |
| 1.47  | Persons with Health Insurance                                   | percent                       | 83.1                  | 100.0  | 81.4  |      | 2016                  |                                     | 9      |
| 1.22  | People 25+ with a High School<br>Degree or Higher               | percent                       | 86.8                  |        | 82.3  | 87.0 | 2012-2016             | American Indian or<br>Alaska Native | 1      |
| 1.11  | Substantiated Child Abuse Rate                                  | cases/ 1,000<br>children      | 5.5                   |        | 8.5   |      | 2017                  |                                     | 10     |
| 1.00  | Total Employment Change   | percent                       | 3.5                   |        | 3.2   | 2.5  | 2014-2015             |                                     | 15     |
| 0.83  | Linguistic Isolation  | percent                       | 3.7                   |        | 7.9   | 4.5  | 2012-2016             |                                     | 1      |
| 0.67  | Voter Turnout: Presidential<br>Election                         | percent                       | 65.5                  |        | 58.8  |      | 2016                  |                                     | 13     |

| 0.61  | Homeownership                                    | percent                       | 65.6                  |        | 55.0   | 55.9   | 2012-2016             |  | 1      |
|-------|--|-------------------------------|-----------------------|--------|--------|--------|-----------------------|--|--------|
| 0.58  | Median Housing Unit Value                        | dollars                       | 190000                |        | 142700 | 184700 | 2012-2016             |  | 1      |
| 0.50  | People 65+ Living Alone                          | percent                       | 21.5                  |        | 23.9   | 26.4   | 2012-2016             |  | 1      |
| 0.39  | Median Household Income                          | dollars                       | 70805                 |        | 54727  | 55322  | 2012-2016             | Black or African<br>American, Hispanic<br>or Latino, Other,<br>Two or More Races   | 1      |
| 0.39  | Single-Parent Households                         | percent                       | 23.8                  |        | 33.3   | 33.6   | 2012-2016             |  | 1      |
| 0.33  | People 25+ with a Bachelor's<br>Degree or Higher | percent                       | 33.0                  |        | 28.1   | 30.3   | 2012-2016             | 25-34, 65+<br>American Indian or<br>Alaska Native,<br>Other, Two or More<br>Races  | 1      |
| 0.17  | Children Living Below Poverty<br>Level           | percent                       | 14.8                  |        | 23.9   | 21.2   | 2012-2016             | Hispanic or Latino,<br>Other   | 1      |
| 0.17  | People Living Below Poverty Level                | percent                       | 11.0                  |        | 16.7   | 15.1   | 2012-2016             | 12-17, 18-24, 6-11,<br><6 Black or African<br>American, Hispanic<br>or Latino, Other                                     | 1      |
| 0.17  | Per Capita Income                                | dollars                       | 35912                 |        | 27828  | 29829  | 2012-2016             | American Indian or<br>Alaska Native, Black<br>or African<br>American, Hispanic<br>or Latino, Other,<br>Two or More Races | 1      |
|       |  |                               |                       |        |        |        |                       |  |        |
| SCORE | SUBSTANCE ABUSE                                  | UNITS                         | MONTGOME<br>RY COUNTY | HP2020 | Texas  | U.S.   | MEASUREMENT<br>PERIOD | HIGH DISPARITY*  | Source |
| 2.17  | Adults who Drink Excessively                     | percent                       | 21.0                  | 25.4   | 19.4   | 18.0   | 2016                  |  | 4      |
| 2.06  | Alcohol-Impaired Driving Deaths                  | percent                       | 32.9                  |        | 28.3   | 29.3   | 2012-2016             |  | 4      |
| 1.08  | Death Rate due to Drug Poisoning                 | deaths/ 100,000<br>population | 10.6                  |        | 9.8    | 16.9   | 2014-2016             |  | 4      |
| 0.67  | Liquor Store Density                             | stores/100,000                | 6.3                   |        | 6.8    | 10.5   | 2015                  |  | 15     |

|       |   | population |                       |        |       |      |                       |                    |        |
|-------|---|------------|-----------------------|--------|-------|------|-----------------------|--------------------|--------|
|       |   |            |                       |        |       |      |                       |                    |        |
| SCORE | TRANSPORTATION  | UNITS      | MONTGOME<br>RY COUNTY | HP2020 | Texas | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY*    | Source |
| 2.78  | Workers who Walk to Work                                    | percent    | 1.0                   | 3.1    | 1.6   | 2.8  | 2012-2016             |                    | 1      |
| 2.61  | Mean Travel Time to Work                                    | minutes    | 32.5                  |        | 25.9  | 26.1 | 2012-2016             | Male               | 1      |
| 2.61  | Solo Drivers with a Long<br>Commute                         | percent    | 49.9                  |        | 36.9  | 34.7 | 2012-2016             |                    | 4      |
| 2.17  | Workers who Drive Alone to<br>Work                          | percent    | 81.5                  |        | 80.3  | 76.4 | 2012-2016             |                    | 1      |
| 1.67  | Workers Commuting by Public<br>Transportation               | percent    | 1.3                   | 5.5    | 1.5   | 5.1  | 2012-2016             | 16-19, 20-24 Other | 1      |
| 1.17  | Households with No Car and Low<br>Access to a Grocery Store | percent    | 1.5                   |        |       |      | 2015                  |                    | 16     |
| 0.50  | Households without a Vehicle                                | percent    | 3.6                   |        | 5.6   | 9.0  | 2012-2016             |                    | 1      |
| SCORE | WELLNESS & LIFESTYLE  | UNITS      | MONTGOME<br>RY COUNTY | HP2020 | Texas | U.S. | MEASUREMENT<br>PERIOD | HIGH DISPARITY*    | Source |
| 1.39  | Life Expectancy for Females                                 | years      | 80.7                  |        | 80.8  | 81.5 | 2014                  |                    | 6      |
| 1.17  | Insufficient Sleep  | percent    | 31.8                  |        | 32.7  | 38.0 | 2016                  |                    | 4      |
| 1.00  | Life Expectancy for Males                                   | years      | 76.7                  |        | 76.2  | 76.7 | 2014                  |                    | 6      |
| 0.67  | Frequent Physical Distress                                  | percent    | 9.9                   |        | 10.8  | 15.0 | 2016                  |                    | 4      |
| 0.67  | Poor Physical Health: Average<br>Number of Days             | days       | 3.3                   |        | 3.5   | 3.7  | 2016                  |                    | 4      |
| 0.67  | Self-Reported General Health<br>Assessment: Poor or Fair    | percent    | 14.1                  |        | 18.2  | 16.0 | 2016                  |                    | 4      |

| SCORE | WOMEN'S HEALTH                                  | UNITS                      | MONTGOME<br>RY COUNTY | HP2020 | Texas | U.S.  | MEASUREMENT<br>PERIOD | HIGH DISPARITY* | Source |
|-------|---|----------------------------|-----------------------|--------|-------|-------|-----------------------|-----------------|--------|
| 1.58  | Cervical Cancer Incidence Rate                  | cases/ 100,000<br>females  | 8.0                   | 7.3    | 9.2   | 7.5   | 2011-2015             |                 | 7      |
| 1.39  | Life Expectancy for Females                     | years                      | 80.7                  |        | 80.8  | 81.5  | 2014                  |                 | 6      |
| 1.33  | Breast Cancer Incidence Rate                    | cases/ 100,000<br>females  | 117.6                 |        | 111.7 | 124.7 | 2011-2015             |                 | 7      |
| 1.08  | Age-Adjusted Death Rate due to<br>Breast Cancer | deaths/ 100,000<br>females | 19.6                  | 20.7   | 20.2  | 20.9  | 2011-2015             |                 | 7      |

# **Appendix C. Primary Data Methodology**

# **Community Input Participants**

AccessHealth (FQHC) (Fort Bend Family

Health Center)

AIDS Foundation of Houston

Association for the Advancement of

Mexican Americans

Avenue CDC

Catholic Charities - Archdiocese of

Galveston

Catholic Charities - Fort Bend Child Advocates of Fort Bend

Children at Risk Christ Clinic

City of Houston, Department of Parks and

Recreation

Coastal Area Health Education Centers

(AHEC)

Community Health Choice El Centro de Corazon

Episcopal Health Foundation

Fort Bend County Health and Human

Services

Fort Bend County Sheriff's Office

Fort Bend Regional Council On Substance

Abuse

Fort Bend Seniors Meals on Wheels

Fort Bend Women's Center Galveston County Health District

**Galveston County Mental Health Deputies** 

**Greater Houston Partnership** 

Greater Houston Women's Chamber of

Commerce

Gulf Coast Medical Foundation
Harris County Public Health

Healthcare for the Homeless - Houston

HOPE Clinic (FQHC)
Houston Food Bank

Houston Health Department Houston Housing Authority

Houston Independent School District

Interfaith Community Clinic

Kinder Institute

Legacy Community Health Liberty County Sheriff's Office Lone Star Family Health Center

Midtown Arts and Theater Center Houston Montgomery County Women's Center

Baker-Ripley Early Head Start

Patient Care Intervention Center (PCIC)

Prairie View A&M University Santa Maria Hostel, Inc. The Arc of Fort Bend County

The Harris Center for Mental Health and

IDD (formerly MHMRA)

The Rose

The Women's Home

Tri-County Services Behavioral Healthcare

United Way of Brazoria County United Way of Greater Houston

United Way of Harris and Montgomery

County

West Chambers Medical Center (FQHC)

YMCA of Greater Houston

## **Key Informant Interview Questionnaire (Episcopal Health Foundation)**

- Good morning/afternoon [NAME OF INFORMANT]. My name is [NAME OF INTERVIEWER], and I am with Health Resources in Action, a non-profit public health organization based in Boston. Thank you for speaking with me today.
- As we mentioned in our interview invitation, the Episcopal Health Foundation is coordinating an interview initiative to support four Greater Houston area hospital systems in preparing their community health needs assessments. The collaborating hospitals include CHI St. Luke's, Houston Methodist Hospital, Memorial Hermann Health System, and Texas Children's Hospital.
- The purpose of this interview is to gain a greater understanding of the health status and wellbeing of residents in the Greater Houston area and determine how these health needs are currently being addressed. Interviews like this one are being conducted with about 70 stakeholders from a range of sectors such as government, healthcare, business, and community service organizations. We are also interviewing community leaders with specific experience working with priority populations such as women, children, people of color, and the disabled to name a few.
- We are interested in hearing people's feedback on the needs of the broader Greater
  Houston community and the populations you work with as a leader in your community. The
  Foundation and the four hospitals welcome your critical feedback and suggestions for health
  improvement activities in the future. Your honesty during today's interview is encouraged
  and appreciated.
- As we mentioned in our interview invitation, the interview will last between 45 minutes to an hour and it will be recorded. After all the interviews are completed, Health Resources in Action will provide a transcript of your interview to the four hospitals for use in preparing their community health needs assessment reports. Each hospital will keep your interview transcript confidential and accessible only to the team that is preparing the community health needs assessment report. Health Resources in Action will also be preparing a report of the general themes that emerge across all the interviews to help the hospitals prepare their reports.
- The Foundation has asked Health Resources in Action to ask all interviewees how they wish any quotes from today's interview to be presented in reports. There are three options. Quotes may be presented anonymously without your name or organization, presented with your name and organization, or presented with only the sector you represent. Which option would you like to choose?

| • | RECORD RESPONSE FROM INTERVIEWEE:            |
|---|--|
|   | ☐ Anonymous ☐ Name and organization ☐ Sector |

Thank you. We will note your choice in the transcript that we provide to the hospitals.

- IF THE RESPONDENT IS UNSURE AT THE TIME OF THE INTERVIEW: Ok, please feel free to think it over and we will follow up with you for your decision before we send the transcript to the hospitals.
- Do you have any questions before we begin? BEGIN RECORDING THE INTERVIEW

#### **INTERVIEW QUESTIONNAIRE (55 MINUTES)**

#### NOTES TO INTERVIEWER:

- INTERVIEW QUESTIONS MAY BE ADDED OR TAILORED TO MEET THE SPECIFIC POSITION/ROLE OF THE INTERVIEWEE
- THE QUESTIONS IN THE INTERVIEW QUESTIONNAIRE ARE INTENDED TO SERVE AS A <u>GUIDE</u>, NOT A SCRIPT

# **BACKGROUND (5 MINUTES)**

- Can you tell me a little bit about your role at your organization/agency?
  - Has your organization/agency ever partnered with any of the four hospitals involved in this shared community health needs assessment before? IF SO, PROBE IN WHAT CAPACITY/PROGRAM
- How would you describe the community you represent/the community your organization serves/the Greater Houston population at large? What are some of its defining characteristics in terms of demographics? INTERVIEWER: ESTABLISH WHAT THE INFORMANT CONSIDERS THE COMMUNITY TO BE FROM THEIR PERSPECTIVE

#### **COMMUNITY ISSUES (20 minutes)**

INTERVIEWER: VARY THE LABEL OF 'COMMUNITY' BASED ON THE INFORMANT'S BACKGROUND AND HOW HE OR SHE DESCRIBES THE COMMUNITY; BE SURE TO PROBE ON WOMEN'S AND CHILDREN'S ISSUES TO ENSURE WE ADDRESS THE NEEDS OF THE CHILDREN'S HOSPITALS IN ALL QUESTIONS AS RELEVANT

- Thinking about the status of the community today, how would you rate the overall health status of residents on a scale of 1 to 5 with 1 being poor and 5 being very healthy?
- If you had to pick your top 3 <u>health</u> concerns in the community, what would they be? PROBE IN-DEPTH BASED ON INFORMANT AREA OF EXPERTISE
  - Who do you consider to be the populations in the community most vulnerable or at risk for these conditions/issues?
    - IF NOT YET MENTIONED, PROBE SPECIFICALLY ON PRIORITY POPULATION RELEVANT TO THE INFORMANT'S EXPERTISE: What do you think are the most pressing <u>health</u> concerns in the community for [PRIORITY POPULATION]?

- FOR INFORMANTS EXPERTISE WITH WOMEN AND CHILDREN: What do you think are the most pressing health concerns in the community for children and their families? How about for women?
- IF NOT YET DISCUSSED: Of the top three issues you mentioned, which would you rank as your top issue? How do you see this issue affecting community members' daily lives and their health? PROBE IN-DEPTH IN SPECIFIC FOCUS AREAS; MAY ASK ABOUT ONE ISSUE AT TIME AND FOCUS ON PERSON'S AREA OF EXPERTISE.
- From your experience, what are residents' biggest barriers to addressing the top 3 health issues you identified?

o PROBE: Social determinants of health?

PROBE: Barriers to accessing medical care?

o PROBE: Barriers to accessing preventive services or programs?

#### **FOCUS AREA: HEALTHY LIVING (5 MINUTES)**

- I'd like to ask you about barriers affecting healthy living and the prevention of obesity.
  - What are some of the barriers to healthy eating and physical activity among the communities you serve?
    - What populations are most affected by barriers to healthy living and physical activity? PROBE ABOUT FOOD INSECURITY AND ACCESS TO SAFE SPACES FOR PHYSICAL ACTIVITY
  - What efforts or programs are you aware of that promote healthy living? PROBE ABOUT HEALTHY LIVING MATTERS COLLABORATIVE

#### ACCESS TO HEALTH CARE AND PUBLIC HEALTH/PREVENTION SERVICES (15 MINUTES)

- I'd like to ask you about access to health care and social services in your community.
  - What do you see as the strengths of the health care and social services in your community?
  - O What do you see as its limitations?
- What challenges/barriers do residents in your community face in accessing health care and social services? [PROBE IN DEPTH FOR BARRIERS TO CARE: INSURANCE ISSUES, LANGUAGE BARRIERS, ACCESS TO HEALTH INFORMATION/HEALTH LITERACY, LACK OF TRANSPORTION, CHILD CARE, ETC.]
  - What do you think needs to happen in the community you serve to help residents overcome or address these challenges?
- What programs, services, or policies are you aware of in the community that address access to health care and social services?

- o In your opinion, how effective have these programs, services, or policies been at addressing the health needs of residents?
- What program, services, or policies are currently not available that you think should be?

### IMPROVING THE HEALTH OF THE COMMUNITY/RESIDENTS (10 MINUTES)

- What do you think needs to happen in the community you serve to help residents overcome or address the challenges they face in being able to be healthy?
- Earlier in this interview, you mentioned [TOP ISSUE] as being your top health priority for area residents. What do you think needs to be done to address [TOP ISSUE HERE]?
  - What do you think hospitals can do to address this issue that they aren't doing right now? Do you have any suggestions about how hospitals can be creative or work outside their traditional role to address this issue and improve community health?
  - What kinds of opportunities are currently out there that can be seized upon to address these issues? For example, are there some "low hanging fruit" – current collaborations or initiatives that can be strengthened or expanded?

#### **VISION FOR THE COMMUNITY (5 MINUTES)**

• The hospitals involved in this initiative will be planning their strategy to improve the health of the communities they serve. What advice do you have for the group developing the plan to address the top health needs you've mentioned?

#### **CLOSING (5 MINUTES)**

Thank you so much for your time. That's it for my questions. Is there anything else that you would like to mention that we didn't discuss today?

As I mentioned, after all of the interviews are completed, we will be sending your interview transcripts to the four hospitals. Each hospital will make their community health needs assessment reports publicly available when they are complete. If you have any questions, please feel free to reach out to Jennifer Mineo at the Episcopal Health Foundation who is coordinating this effort on behalf of the four hospitals. Thank you again. Have a good morning/afternoon.

# **Key Informant Interview Questionnaire (Conduent Healthy Communities Institute)**

Good morning/afternoon [NAME OF INFORMANT]. My name is [NAME OF INTERVIEWER], and I am with Conduent Healthy Communities Institute. My colleague [name] is also on the line. We are working with Memorial Hermann Health System to conduct a Community Health Needs Assessment.

- The purpose of this interview is to gain a greater understanding of the health status and wellbeing of residents in the Greater Houston area and determine how these health needs are currently being addressed. Interviews like this one are being conducted with about 12 stakeholders from a range of sectors such as government, healthcare, business, and community service organizations. We are also interviewing community leaders with specific experience working with priority populations such as women, children, people of color, and the disabled to name a few.
- We are interested in hearing people's feedback on the needs of the community and the
  populations you work with as a leader in your community. Memorial Hermann welcome
  your critical feedback and suggestions for health improvement activities in the future. Your
  honesty during today's interview is encouraged and appreciated.
- As we mentioned in our interview invitation, the interview will last between 45 minutes to an hour and it will be recorded. After all the interviews are completed, we will analyze and summarize all the interviews to incorporate into the community health needs assessment reports. Each MH hospital will keep your interview transcript confidential and accessible only to the team that is preparing the community health needs assessment report.
- Memorial Hermann has asked HCl to ask all interviewees how they wish any quotes from today's interview to be presented in reports. There are three options. Quotes may be presented anonymously without your name or organization, presented with your name and organization, or presented with only the sector you represent.
  - Which option would you like to choose?
     RECORD RESPONSE FROM INTERVIEWEE:
     □ Anonymous □ Name and organization □ Sector
- Thank you. We will note your choice in the transcript that we provide to the hospitals.
  - IF THE RESPONDENT IS UNSURE AT THE TIME OF THE INTERVIEW: Ok, please feel free to think it over and we will follow up with you for your decision before we send the transcript to the hospitals.
  - Do you have any questions before we begin? BEGIN RECORDING THE INTERVIEW

# **INTERVIEW QUESTIONNAIRE (55 MINUTES)**

#### NOTES TO INTERVIEWER:

- INTERVIEW QUESTIONS MAY BE ADDED OR TAILORED TO MEET THE SPECIFIC POSITION/ROLE OF THE INTERVIEWEE
- THE QUESTIONS IN THE INTERVIEW QUESTIONNAIRE ARE INTENDED TO SERVE AS A <u>GUIDE</u>, NOT A SCRIPT

#### **BACKGROUND (5 MINUTES)**

- Can you tell me a little bit about your role at your organization?
  - Has your organization/agency ever partnered with MH's community health needs assessment before? IF SO, PROBE IN WHAT CAPACITY/PROGRAM
- How would you describe the community you represent/the community your organization serves? What are some of its defining characteristics in terms of demographics?
   INTERVIEWER: ESTABLISH WHAT THE INFORMANT CONSIDERS THE COMMUNITY TO BE FROM THEIR PERSPECTIVE

#### **COMMUNITY ISSUES (20 minutes)**

INTERVIEWER: VARY THE LABEL OF 'COMMUNITY' BASED ON THE INFORMANT'S BACKGROUND AND HOW HE OR SHE DESCRIBES THE COMMUNITY; BE SURE TO PROBE ON WOMEN'S AND CHILDREN'S ISSUES TO ENSURE WE ADDRESS THE NEEDS OF THE CHILDREN'S HOSPITALS IN ALL QUESTIONS AS RELEVANT

- Thinking about the status of the community today, how would you rate the overall health status of residents on a scale of 1 to 5 with 1 being poor and 5 being very healthy?
- If you had to pick your top 3 <u>health</u> concerns in the community, what would they be?
   PROBE IN-DEPTH BASED ON INFORMANT AREA OF EXPERTISE
  - Who do you consider to be the populations in the community most vulnerable or at risk for these conditions/issues?
    - IF NOT YET MENTIONED, PROBE SPECIFICALLY ON PRIORITY POPULATION RELEVANT TO THE INFORMANT'S EXPERTISE: What do you think are the most pressing <u>health</u> concerns in the community for [PRIORITY POPULATION]?
    - FOR INFORMANTS EXPERTISE WITH WOMEN AND CHILDREN: What do you think are the most pressing health concerns in the community for children and their families? How about for women?

- IF NOT YET DISCUSSED: Of the top three issues you mentioned, which would you rank as your top issue? How do you see this issue affecting community members' daily lives and their health? PROBE IN-DEPTH IN SPECIFIC FOCUS AREAS; MAY ASK ABOUT ONE ISSUE AT TIME AND FOCUS ON PERSON'S AREA OF EXPERTISE.
- From your experience, what are residents' biggest barriers to addressing the top 3 health issues you identified?

o PROBE: Social determinants of health?

PROBE: Barriers to accessing medical care?

o PROBE: Barriers to accessing preventive services or programs?

#### **FOCUS AREA: HEALTHY LIVING (5 MINUTES)**

- I'd like to ask you about barriers affecting healthy living and the prevention of obesity.
  - What are some of the barriers to healthy eating and physical activity among the communities you serve?
    - What populations are most affected by these barriers to healthy living and physical activity? PROBE ABOUT FOOD INSECURITY AND ACCESS TO SAFE SPACES FOR PHYSICAL ACTIVITY
  - What efforts or programs are you aware of that promote healthy living? PROBE ABOUT HEALTHY LIVING MATTERS COLLABORATIVE

#### ACCESS TO HEALTH CARE AND PUBLIC HEALTH/PREVENTION SERVICES (15 MINUTES)

- I'd like to ask you about access to health care and social services in your community.
  - What ARE the strengths of the health care and social services in your community?
  - O What are some of their limitations?
- What challenges/barriers do residents in your community face when accessing health care
  and social services? [PROBE IN DEPTH FOR BARRIERS TO CARE: INSURANCE ISSUES,
  LANGUAGE BARRIERS, ACCESS TO HEALTH INFORMATION/HEALTH LITERACY, LACK OF
  TRANSPORTION, CHILD CARE, ETC.]
  - What do you think needs to happen in the community to help residents overcome or address these challenges?
- What programs, services, or policies are you aware of that address access to health care and social services?
  - In your opinion, how effective have these programs, services, or policies been at addressing the health needs of residents?
  - O What program, services, or policies not available that you think should be?

#### IMPROVING THE HEALTH OF THE COMMUNITY/RESIDENTS (10 MINUTES)

- What do you think needs to happen in the community to help residents overcome or address the challenges they face in being able to be healthy?
- Earlier in this interview, you mentioned [TOP ISSUE] as being your top health priority for area residents. What do you think needs to be done to address [TOP ISSUE HERE]?
  - What do you think hospitals can do to address this issue that they are not doing right now?
  - Do you have any suggestions about how hospitals can be creative or work outside their traditional role to address this issue and improve community health?
  - What kinds of opportunities are currently out there that can be seized upon to address these issues? For example, are there some "low hanging fruit" – current collaborations or initiatives that can be strengthened or expanded?

#### **VISION FOR THE COMMUNITY (5 MINUTES)**

• The hospitals involved in this initiative will be planning their strategy to improve the health of the communities they serve.

What advice do you have for the group developing the plan to address the top health needs you've mentioned?

#### **CLOSING (5 MINUTES)**

Thank you so much for your time. That's it for my questions. Is there anything else that you would like to mention that we didn't discuss today?

As I mentioned, after all of the interviews are completed, we will be sending your interview transcripts to Memorial Hermann. The community health needs assessment reports will be **publicly** available when they are complete. If you have any questions, please feel free to reach out to Deborah Ganelin at Memorial Hermann who is coordinating this effort. Thank you again. Have a good morning/afternoon.

# **Community Survey (English)**

Memorial Hermann Health System is conducting a Community Health Needs Assessment for the Greater Houston area. This assessment allows Memorial Hermann to better understand the health status and needs of the community and use the knowledge gained to implement programs that will benefit the community.

We can better understand community needs by gathering voices from the community. This survey allows community members like you to tell us about what you feel are important issues for your community.

We estimate that it will take about 5 minutes to complete this survey.

Thank you very much for your input and your time!

| 1. | Please look at this list of community issues. In your opinion, what are the top 5 issues most |
|----|---|
|    | affecting the quality of life in your community?  |
|    | □ Diabetes  |
|    | ☐ Obesity/Overweight  |
|    | ☐ Respiratory/Lung Disease (asthma, COPD, etc.)   |
|    | □ Cancers   |
|    | ☐ Mental Health and Mental Disorders  |
|    | ☐ Injuries, Violence and Safety   |
|    | ☐ Substance Abuse (alcohol, tobacco, drugs, etc.)   |
|    | ☐ Oral Health   |
|    | ☐ Heart Disease and Stroke  |
|    | ☐ Sexual Health (HIV/AIDS, STDs, etc.)  |
|    | ☐ Teenage Pregnancy   |
|    | □ Elder Care  |
|    | ☐ Reproductive Health (family planning)   |
|    | Other (please specify):   |
| 2. | How would you rate your own personal health?  |
|    | □ Very healthy  |
|    | □ Somewhat healthy  |
|    | □ Unhealthy   |
|    | □ Very unhealthy  |
| 3. | About how many times a week do you exercise or perform a physical activity like walking,      |
| -  | running, bicycling, etc.?   |
|    | ☐ Less than 1 time a week   |
|    | □ 2-3 times a week  |
|    | □ 5 or more times a week  |
|    | □ Never   |
|    | Other (please specify):   |
|    |   |

| 4.  | What are some of the barriers or challenges to a  No places to exercise  No time to exercise  I don't like exercising  Feel unsafe exercising in the community  None of my friends or family exercise  No childcare  Lack of funds to pay for gym or classes  No transportation  Other (please specify): | exercising c      | on a regula | r basis for yo | u?                   |  |  |
|---|--|-------------------|-------------|----------------|----------------------|--|--|
| 5.  | How much do you agree or disagree with each of   |                   |             |                |                      |  |  |
|   |  | Agree<br>strongly | Agree       | Disagree       | Disagree<br>strongly |  |  |
| The   | re are good parks for children, adults and people of   | Strongry          |             |                | Strongry             |  |  |
|   | abilities to enjoy in my community   |                   |             |                |                      |  |  |
|   | he past 12 months, I had a problem getting the   |                   |             |                |                      |  |  |
|   | Ith care I needed for me or a family member from   |                   |             |                |                      |  |  |
| any type of health care provider, dentist, pharmacy, or |  |                   |             |                |                      |  |  |
|   | er facility  |                   |             |                |                      |  |  |
|   | n't know where to get services for myself when I am , depressed or need someone to talk to   |                   |             |                |                      |  |  |
|   | n confident I can get an appointment when I need to  |                   |             |                |                      |  |  |
|   | my doctor fairly quickly   |                   |             |                |                      |  |  |
|   | I have a place to receive medical care other than the  |                   |             |                |                      |  |  |
| eme   | ergency room   |                   |             |                |                      |  |  |
|   | hin the past 12 months, I worried whether my food  |                   |             |                |                      |  |  |
|   | uld run out before I got money to buy more   |                   |             |                |                      |  |  |
|   | Within the past 12 months, the food I bought just didn't   |                   |             |                |                      |  |  |
|   | last and I didn't have money to get more   |                   |             |                |                      |  |  |
|   | There are many options for healthy and affordable food in my community   |                   |             |                |                      |  |  |
| 6.  | Has your doctor ever told you that you have any High blood pressure High cholesterol Cancer Diabetes Obesity Asthma Heart disease Other (please specify):  |                   |             |                |                      |  |  |
|   | Now, a few questions so that we can see how different types of people feel about the questions asked.  |                   |             |                |                      |  |  |

| Zıp                 | code where you live:                                  |  |  |  |  |  |  |
|---------------------|---|--|--|--|--|--|--|
| . What is your age? |   |  |  |  |  |  |  |
| Wh                  | at is your race/ethnicity?                            |  |  |  |  |  |  |
|                     | White   |  |  |  |  |  |  |
|                     | Black/African American                                |  |  |  |  |  |  |
|                     | Hispanic/Latino                                       |  |  |  |  |  |  |
|                     | Asian/Pacific Islander                                |  |  |  |  |  |  |
|                     | Native American                                       |  |  |  |  |  |  |
|                     | Other (please specify):                               |  |  |  |  |  |  |
|                     |   |  |  |  |  |  |  |
| Wh                  | at are the ages of children living in your household? |  |  |  |  |  |  |
|                     | 11 and younger  |  |  |  |  |  |  |
|                     | 12-18 years old                                       |  |  |  |  |  |  |
|                     | 18 and older  |  |  |  |  |  |  |
|                     | None  |  |  |  |  |  |  |
|                     |   |  |  |  |  |  |  |
| Wh                  | at kind of medical insurance or coverage do you have? |  |  |  |  |  |  |
|                     | Private   |  |  |  |  |  |  |
|                     | Employer-sponsored                                    |  |  |  |  |  |  |
|                     | Medicaid  |  |  |  |  |  |  |
|                     | Medicare  |  |  |  |  |  |  |
|                     | None  |  |  |  |  |  |  |
|                     | Other (please specify):                               |  |  |  |  |  |  |
|                     | Wh  |  |  |  |  |  |  |

Thank you for completing this survey!

## **Community Survey (Spanish)**

Memorial Hermann Health System está realizando una Evaluación de las Necesidades de Salud de la Comunidad en el área metropolitana de Houston. Esta evaluación permite a Memorial Hermann comprender mejor el estado de salud y las necesidades de la comunidad, así como usar la información obtenida para poner en práctica programas que beneficien a la comunidad.

#### Calculamos que le tomará unos 5 minutos completar esta encuesta. 1. Lea la lista de problemas de la comunidad. En su opinión ¿cuáles son los 5 problemas que más afectan la calidad de vida en su comunidad? □ Diabetes □ Salud bucal □ Obesidad/sobrepeso ☐ Enfermedades cardíacas y accidentes ☐ Enfermedades respiratorias/pulmonares cerebrovasculares (asma, enfermedad pulmonar obstructiva ☐ Salud sexual (VIH/sida, enfermedades crónica [EPOC], etc.) de transmisión sexual [ETS], etc.) □ Cáncer □ Embarazos de adolescentes ☐ Salud mental y trastornos mentales □ Cuidado de ancianos □ Lesiones, violencia y seguridad □ Salud reproductiva (planificación familiar) □ Drogodependencia (alcohol, tabaco, drogas, etc.) □ Otros, (especifique): \_\_\_\_\_ 2. ¿Cómo calificaría su propia salud personal? □ Muy buena □ Mala □ Bastante buena □ Muy mala 3. ¿Aproximadamente, cuántas veces por semana hace ejercicio o alguna actividad física, como caminar, correr, andar en bicicleta, etc.? ☐ Menos de 1 vez por semana □ 5 o más veces por semana □ De 2 a 3 veces por semana □ Nunca □ Otros, (especifique): \_ 4. ¿Cuáles son algunas de las barreras o dificultades que le impiden hacer ejercicio regularmente? □ No tengo un lugar donde hacer ejercicio. ☐ No tengo con quién dejar a mis hijos mientras ☐ No tengo tiempo para hacer ejercicio. hago ejercicio. □ No me gusta hacer ejercicio. □ No tengo dinero para pagar un gimnasio o □ No me siento seguro/a haciendo ejercicio en clases. mi comunidad. □ No tengo acceso a transporte. ☐ Ninguno de mis amigos o familiares hacen ejercicio.

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□ Otros, (especifique):

| 5. ¿Le ha dicho su médico alguna de las siguientes afecci correspondan).  □ Presión arterial alta | ones? (Mar<br>□ Obesid   |               | las opciones    | que        |  |  |
|---|--------------------------|---------------|-----------------|------------|--|--|
| □ Colesterol alto   | □ Asma                   |               |                 |            |  |  |
| □ Cáncer  | □ Enfermedad cardíaca    |               |                 |            |  |  |
| □ Diabetes  | - Lincin                 | icada carai   | aca             |            |  |  |
|   |                          |               |                 |            |  |  |
| □ Otros, (especifique):   |                          |               |                 |            |  |  |
| 6. ¿En qué medida está de acuerdo o en desacuerdo con   |                          | de las siguie | entes afirmac   | iones?     |  |  |
|   | Muy de                   | De            | En .            | Muy en     |  |  |
|   | acuerdo                  | acuerdo       | desacuerdo      | desacuerdo |  |  |
| En mi comunidad, hay buenos parques para niños, adultos y   |                          |               |                 |            |  |  |
| personas con todo tipo de capacidades para nuestro disfrute.                                      |                          |               |                 |            |  |  |
| En los últimos 12 meses, tuve un problema para obtener el   |                          |               |                 |            |  |  |
| cuidado médico que necesitaba para mí o para un familiar  |                          |               |                 |            |  |  |
| por parte de cualquier tipo de proveedor de cuidado de la   |                          |               |                 |            |  |  |
| salud, dentista, farmacia u otro centro sanitario.  |                          |               |                 |            |  |  |
| No sé dónde obtener servicios para mí cuando estoy triste,  |                          |               |                 |            |  |  |
| deprimido/a, o necesito hablar con alguien.   |                          |               |                 |            |  |  |
| Sé con seguridad que puedo obtener una cita con mi médico   |                          |               |                 |            |  |  |
| con cierta rapidez.   |                          |               |                 |            |  |  |
| Tengo a mi disposición un lugar para recibir cuidados   |                          |               |                 |            |  |  |
| médicos que no sea una sala de emergencias.   |                          |               |                 |            |  |  |
| En los últimos 12 meses, me preocupé de si la comida se   |                          |               |                 |            |  |  |
| agotaría antes de obtener dinero para comprar más   |                          |               |                 |            |  |  |
| alimentos.  |                          |               |                 |            |  |  |
| En los últimos 12 meses, los alimentos que compré   |                          |               |                 |            |  |  |
| simplemente no duraron lo suficiente y no tuve dinero para comprar más.                           |                          |               |                 |            |  |  |
| En mi comunidad hay muchas opciones para comprar  |                          |               |                 |            |  |  |
| alimentos saludables y asequibles.  |                          |               |                 |            |  |  |
| difficited saludables y asequibles.   |                          |               |                 |            |  |  |
|   |                          |               |                 |            |  |  |
| Ahora le haremos algunas preguntas para poder v<br>personas acerca de las pregunt                 |                          |               | _               | upos de    |  |  |
| 7. Código postal de su casa:  |                          |               |                 |            |  |  |
| 8. ¿Cuántos años tiene?   |                          |               |                 |            |  |  |
| 9. ¿Cuál es su raza/origen étnico?  |                          |               |                 |            |  |  |
| □ Blanco/a  | □ Asiático               | o/a o isleño  | o/a del Pacífio | co         |  |  |
| □ Negro/a o afroamericano/a   | □ Indígena americano/a   |               |                 |            |  |  |
| □ Hispano/a o latino/a  | ☐ Otro/a, (especifique): |               |                 |            |  |  |
| □ Otto/a, (especifique).  |                          |               |                 |            |  |  |
| 10. ¿Cuántos años tienen los niños/as que viven en su ca  | isa?                     |               |                 |            |  |  |

| □ 11 y menos                                      | □ Más de 18 años       |
|---|------------------------|
| □ Entre 12 y 18 años                              | □ Ninguno              |
| 11. ¿Qué tipo de seguro médico o cobertura tiene? |                        |
| □ Privado   | □ Medicare             |
| □ Patrocinado por un empleador                    | □ Ninguno              |
| □ Medicaid  | ☐ Otro, (especifique): |

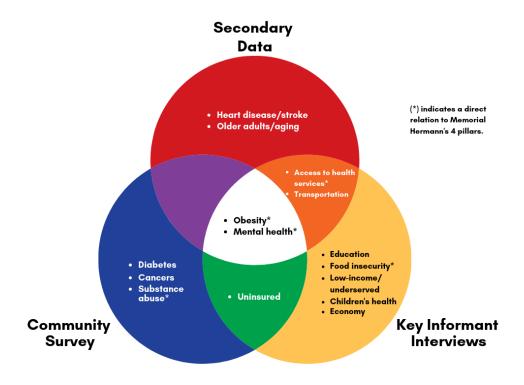
# **Appendix D. Prioritization Tool**

## **Prioritization Survey**

Thank you for your participation in this prioritization process.

The Community Health Needs Assessment (CHNA) process has multiple steps. After thorough research has been completed to identify the significant health needs in the community, these significant health needs must be prioritized for further strategic planning and implementation. Prioritization is the process of determining the most important or urgent health needs to address in communities.

Below is a diagram that shows the methods that were used to identify key issues across Memorial Hermann's service areas. These three methods included: a secondary data review, a community survey and key informant interviews. As you see, some issues revealed themselves across multiple methods. Reviewing this diagram may help you complete this survey.



1. The following health needs are not listed by order of importance. For each health need, click on the arrow on the drop down box and select your agreement with each statement. If you are on a tablet or phone, please scroll all the way to the right for each row.

| The issue <b>impacts</b> | This issue    | There are not          | This issue has   |
|--------------------------|---------------|------------------------|------------------|
| many people in           | significantly | enough <b>existing</b> | high risk for    |
| my community             | impacts       | and adequate           | disease or death |

|                    | subgroups       | resources to       |  |
|--------------------|-----------------|--------------------|--|
|                    |                 | address this issue |  |
|                    | (subgroups by   |                    |  |
|                    | age, gender,    | in my community    |  |
|                    | race/ethnicity, |                    |  |
|                    | LGBTQ, etc.)    |                    |  |
| Access to Health   |                 |                    |  |
| Services           |                 |                    |  |
| Heart Disease and  |                 |                    |  |
| Stroke             |                 |                    |  |
| Older Adults and   |                 |                    |  |
| Aging              |                 |                    |  |
| Obesity (Exercise, |                 |                    |  |
| Nutrition and      |                 |                    |  |
| Weight)            |                 |                    |  |
| Transportation     |                 |                    |  |
| Mental Health      |                 |                    |  |
| Diabetes           |                 |                    |  |
| Substance Abuse    |                 |                    |  |
| Cancers            |                 |                    |  |
| Lack of Health     |                 |                    |  |
| Insurance          |                 |                    |  |
| Education          |                 |                    |  |
| Food Insecurity    |                 |                    |  |
| Low-               |                 |                    |  |
| Income/Underserved |                 |                    |  |
| Children's Health  |                 |                    |  |
| Economy            |                 |                    |  |
|                    | <br>            |                    |  |

2. Indicate the level of importance that should be given towards each of Memorial Hermann's 4 Pillars. Key definitions are listed below.

|                                 | Not       | Somewhat  | Important | Very      | Not Sure |
|---------------------------------|-----------|-----------|-----------|-----------|----------|
|                                 | Important | Important |           | Important |          |
| Access to care (including       |           |           |           |           |          |
| healthcare access, healthcare   |           |           |           |           |          |
| resource awareness,             |           |           |           |           |          |
| healthcare navigation /         |           |           |           |           |          |
| literacy)                       |           |           |           |           |          |
| Food as health (including food  |           |           |           |           |          |
| insecurity, food programs,      |           |           |           |           |          |
| food knowledge)                 |           |           |           |           |          |
| Exercise as medicine            |           |           |           |           |          |
| (including obesity, access to   |           |           |           |           |          |
| parks, safe places to exercise) |           |           |           |           |          |
| Emotional well-being            |           |           |           |           |          |
| (including emotional health,    |           |           |           |           |          |
| mental health, substance        |           |           |           |           |          |
| abuse)                          |           |           |           |           |          |

# **Key definitions:**

Food programs: programs, efforts or services designed to address food issues Food knowledge: one's understanding of healthy foods 3. Who in your community is most affected by poor health outcomes? (Select up to 5) ☐ Lesbian, Gay, Bisexual, Transgender, Queer or Questioning (LGBTQ) □ Older Adults ☐ Persons with Disabilities (cognitive, sensory or physical disability) ☐ Racial/Ethnic Minority Populations □ Veterans ☐ Immigrants or other undocumented persons Persons experiencing homelessness or precariously housed ☐ Other Populations (please specify): 4. Please provide your name: \_\_\_\_\_\_ 5. Please provide your email address: \_\_\_\_\_\_ 6. Please select the name(s) of the healthcare facility or facilities you represent. You may choose more than one. ☐ Memorial Hermann Katy ☐ Memorial Hermann Memorial City ☐ Memorial Hermann Greater Heights ☐ Memorial Hermann Northeast ☐ Memorial Hermann Southeast ☐ Memorial Hermann Sugar Land ☐ Memorial Hermann Southwest ☐ Memorial Hermann The Woodlands ☐ Katy Rehab □ Texas Medical Center ☐ TIRR Memorial Hermann ☐ Memorial Hermann Surgical Hospital Kingwood ☐ Memorial Hermann Surgical Hospital First Colony ☐ Memorial Hermann First Colony Hospital (ER) ☐ Memorial Hermann Tomball Hospital (ER) ☐ Other (please specify): \_\_\_\_\_

Healthcare navigation/literacy: need for education in navigating health systems

Food insecurity: lacking reliable access to healthy food options

Thank you for your input and participation in the Community Health Needs Assessment process.

# **Appendix E. Community Resources**

The following is a list of community resources mentioned by community input participants.

2-1-1 Texas City of Houston, Department of Parks and

A.C. Taylor Health Center Recreation City of Pasadena AccessHealth

Acres Home Health Center Coastal Area Health Education Centers

AIDS Foundation Houston (AHEC) Aldine Health Center Community Health Choice

American Heart Association County Indigent Health Care Program Covenant with Christ Community Service

American Red Cross

Amistad Community Health Center Center Area Agency on Aging Cypress Health Center

Association for the Advancement of Danny Jackson Health Center

Mexican Americans Dental Hygiene Clinic

Avenue 360 Health & Wellness E. A. "Squatty" Lyons Health Center

Avenue CDC El Centro De Corazon Baker-Ripley El Franco Lee Health Center Bastrop Community Health Center **Episcopal Health Foundation** 

Baylor Teen Health Clinic Family Services (Galveston County)

**Bayside Clinic** Fort Bend Connect

Baytown Health Center Fort Bend County Collaborative Information

Bee Busy Wellness Center System

Boat People SOS Fort Bend County Health and Human Bo's Place Services

**Brighter Bites** Fort Bend County Sheriff's Office

Fort Bend Regional Council On Substance Brownsville Community Health Center

Buffalo Bayou Partnership Abuse **Burleson Family Medical Center** Fort Bend Seniors Meals on Wheels

BVCAA - HealthPoint Fort Bend Women's Center Can Do Houston Galveston County Health District

Casa de Amigos Health Center Galveston County Mental Health Deputies Casa El Buen Samaritano Go Healthy Houston Task Force

Catholic Charities of the Archdiocese of GoodRx

Galveston-Houston-Fort Bend Greater Houston Partnership Central Care Community Health Greater Houston Women's Chamber of

Chambers Community Health Center Commerce

CHI St. Luke's Health **Gulf Coast Community Services Association** 

Child Advocates of Fort Bend **Gulf Coast Medical Foundation** 

Children at Risk Gulfgate Health Center

**Christ Clinic** Harmony House Respite Center

Christian Community Services Center (CCSC) Harris Center Crisis Line

**CHRISTUS Health System** Harris County Public Health and **Environmental Services (HCPHES)** Cities Changing Diabetes

City of Houston Harris County Rides

Harris County Social Services

Harris Health System

Harvest Green (Development)

**HEAL Initiative** 

Health Center of Southeast Texas
Healthcare for the Homeless - Houston
Healthy Living Matters (Harris County)

Helping Hands Food Pantry

HOPE Clinic (FQHC)
Houston Food Bank

Houston Health Department Houston Housing Authority

Houston Independent School District Houston Ryan White Planning Council

Houston Shifa Synott Clinic

Huntsville Memorial Hospital Clinic

IbnSina Foundation India House Charity Clinic Interfaith Community Clinic

Interfaith Ministries Meals on Wheels

Interfaith of The Woodlands

Kinder Institute

La Nueva Casa Health Center

Legacy Health (FQHC)

Leon County Community Health Center

Liberty County Sheriff's Office

Lone Star Family Heath Center (FQHC)

Long Branch Health Center Long Term Recovery Group

Los Barrios Unidos Community Clinic

Magnolia Health Center

Mamie George Community Center

Martin Luther King Jr. Health Center

Medical Plus Supplies

MEHOP - Matagorda Episcopal Health

Outreach Program
MET Head Start
Methodist Hospital

Metrolift

Midtown Arts and Theater Center Houston

Montgomery County Food Bank Montgomery County Women's Center

Neighborhood Health Center

Northwest Assistance Ministry's Children's

Clinic

Northwest Health Center Nuestra Clinica del Valle Pat McWaters Health Clinic- Second Mile

Mission

Patient Care Intervention Center (PCIC)
Pearland Community Health Center
Pediatric & Adolescent Health Center

Physicians at Sugar Creek Planned Parenthood

Prairie View A&M University Quentin Mease Hospital

Regional Association of Grant Makers

Regional Medical Center Robert Carrasco Health Clinic

RSVP Med Spa San Jose Clinic

Santa Maria Hostel, Inc. Settegast Health Center

Seva Clinic Charity Medical Facility

Sheltering Arm Senior Services Division of

Baker Ripley Shifa Clinic Smith Clinic

Social Security Administration

Spring Branch Community Health Center

St. Hope Foundation St. Vincent's House

Stephen F. Austin Community Health

Network

Strawberry Health Center Texana Behavioral Health

Texas A&M AgriLife Extension Service

Texas Children's Hospital

Texas Medicaid and CHIP Medical

Transportation Program
The Arc of Fort Bend County

The Beacon

The Harris Center for Mental Health and

IDD (formerly MHMRA)

The Rose

The Women's Home

Thomas Street Health Center

**TOMAGWA Clinic** 

Tri-County Services Behavioral Healthcare

**Uber Health** 

United Way of Brazoria County United Way of Greater Houston United Way Project Blueprint University of Houston - College of
Optometry
University of Texas Health - Dental
University of Texas Health Services
University of Texas Physicians
Urban Harvest
UTMB
Valbona Health Center
VCare Clinic
Vecino Health Center
West Chambers Medical Center (FQHC)
West Houston Assistance Ministries
(WHAM)
Whole Life Service Center

Women's Care Center Workforce Solutions YMCA of Greater Houston